

HealthPrism™

# State of Missouri COVID-19 Response Vaccine Distribution Analysis

September 01, 2021

This document includes COVID-19 data and analytics for the State of Missouri in support of their vaccine distribution process

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STATEWIDE METRICS

2.3M -40k

18+ remaining unvaccinated of eligible

54% +0.8%

18+ percent of eligible population that has initiated vaccination

COVID-19 CASE RATE HOTSPOTS



- **Case rate hotspots** increased considerably in **Region E** – with 82% (14 of 17 hotspots) in **proximity to I-55 and US-60**
- **Cape Girardeau, Mississippi, New Madrid, Scott, and Stoddard counties** represent a small, but growing cluster of increasing case rates and 9 case rate hotspots
- **Case rate hotspots** persisted in **Kansas City** (16 within I-435) and **St Louis** (3 inside I-270), slightly higher than last week

VACCINE UPTAKE TRENDS



- **Vaccine initiations** were close to the **10-week average of ~35k/week**, but have **slightly fallen** for the 3<sup>rd</sup> straight week
- **Regions C & F** contained the largest percentage (74%) of **vaccine uptake hotspots** throughout the State – mainly in the Census Tracts surrounding St. Louis and Columbia/Jefferson City
- Suburban and commuting regions surrounding **Kansas City, Columbia/Jefferson City, and St. Louis led** the State in number of 1<sup>st</sup> dose vaccinations

REGION A DEEP DIVE



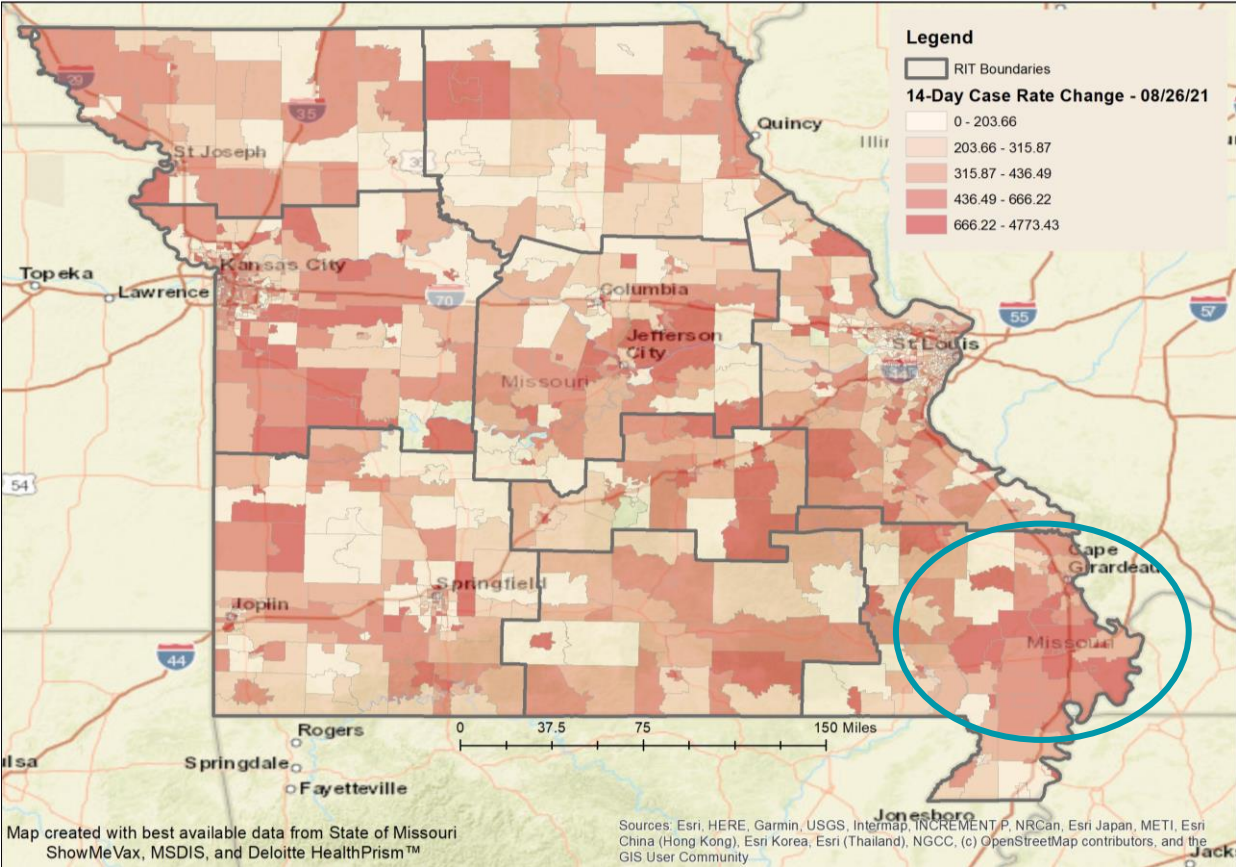
- Region A is the **3<sup>rd</sup> highest vaccinated**, yet 127 of 340 (**37%**) **Census Tracts** in Region A have **under 40%** of their populations vaccinated
- **Case rates** have **increased** across Region A over the past 3 weeks, spreading along major transportation routes, connecting regional hubs in **locations such as Warrensburg & Sedalia**
- 10 Census Tracts of focus were identified based on case rate, COVID-19 vulnerability, and vaccination rates

**Note:** Data on vaccinations include 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated), and are from 8/27/2021. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 8/12/21 to 8/26/21.

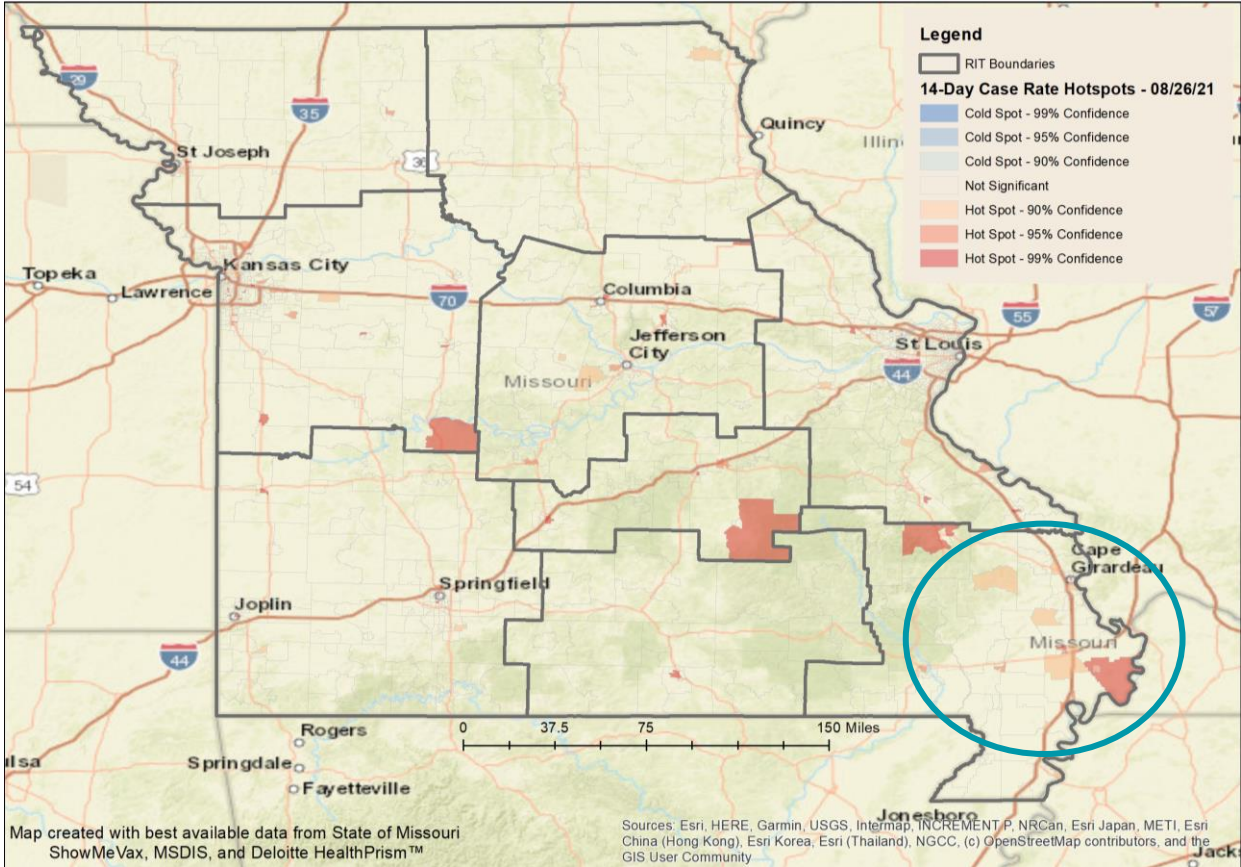


For the time period between 8/12/21 and 8/26/21, the change in COVID-19 case rate (per 100,000) is displayed on the left and case rate hotspots (areas with statistically significant changes in case rates in comparison to surrounding areas) are displayed on the right

14-Day Case Rate Change



14-Day Case Rate Hotspots



Regions A, E and F have experienced the **highest increase of COVID-19 case rates** for the past 3 weeks

Case rate hotspots have considerably increased in **Region E** – with 82% (14 of 17 hotspots) in **close proximity to I-55 and US-60**

**Cape Girardeau, Mississippi, New Madrid, Scott, and Stoddard counties** represent a small, but growing cluster of increasing case rates and 9 case rate hotspots

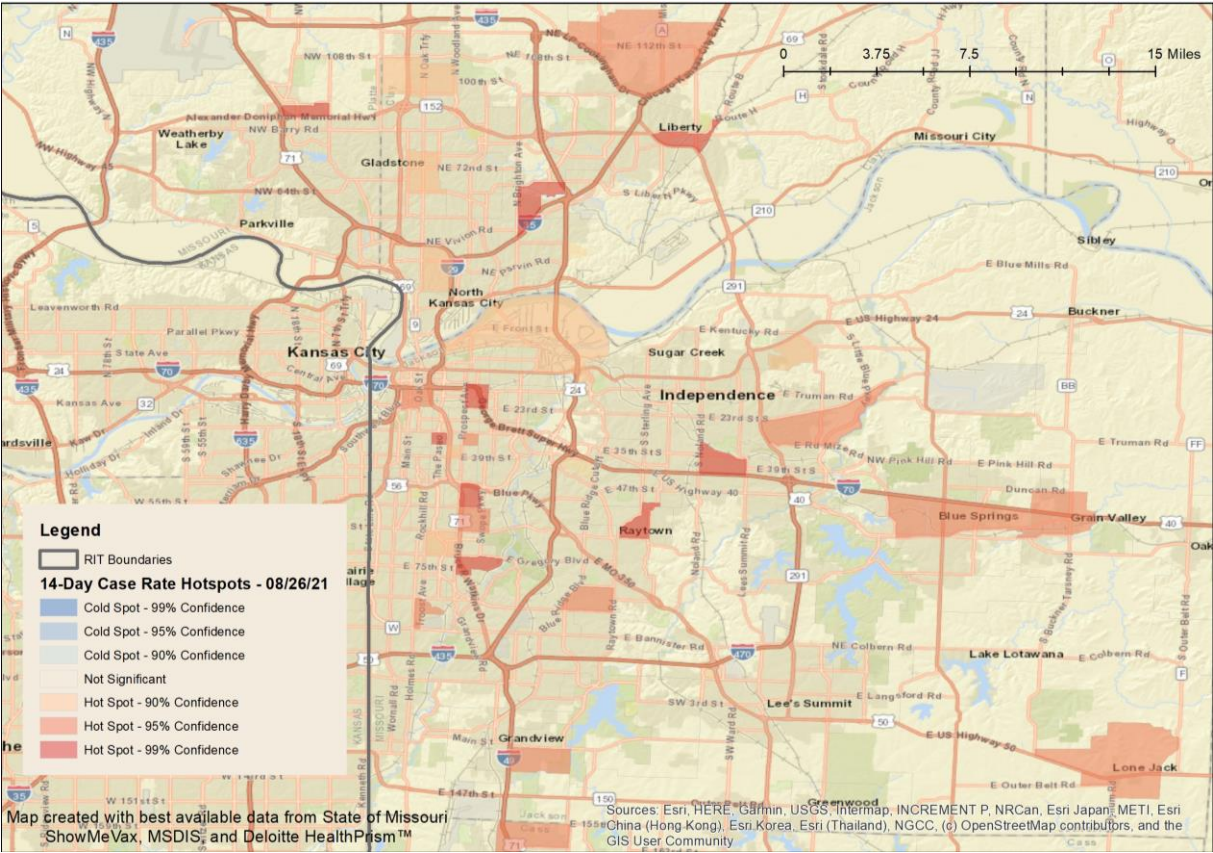
**Note:** Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 8/26/21. Previous 2-week change view provided in the Appendix, along with methodology, data sources, and limitations.

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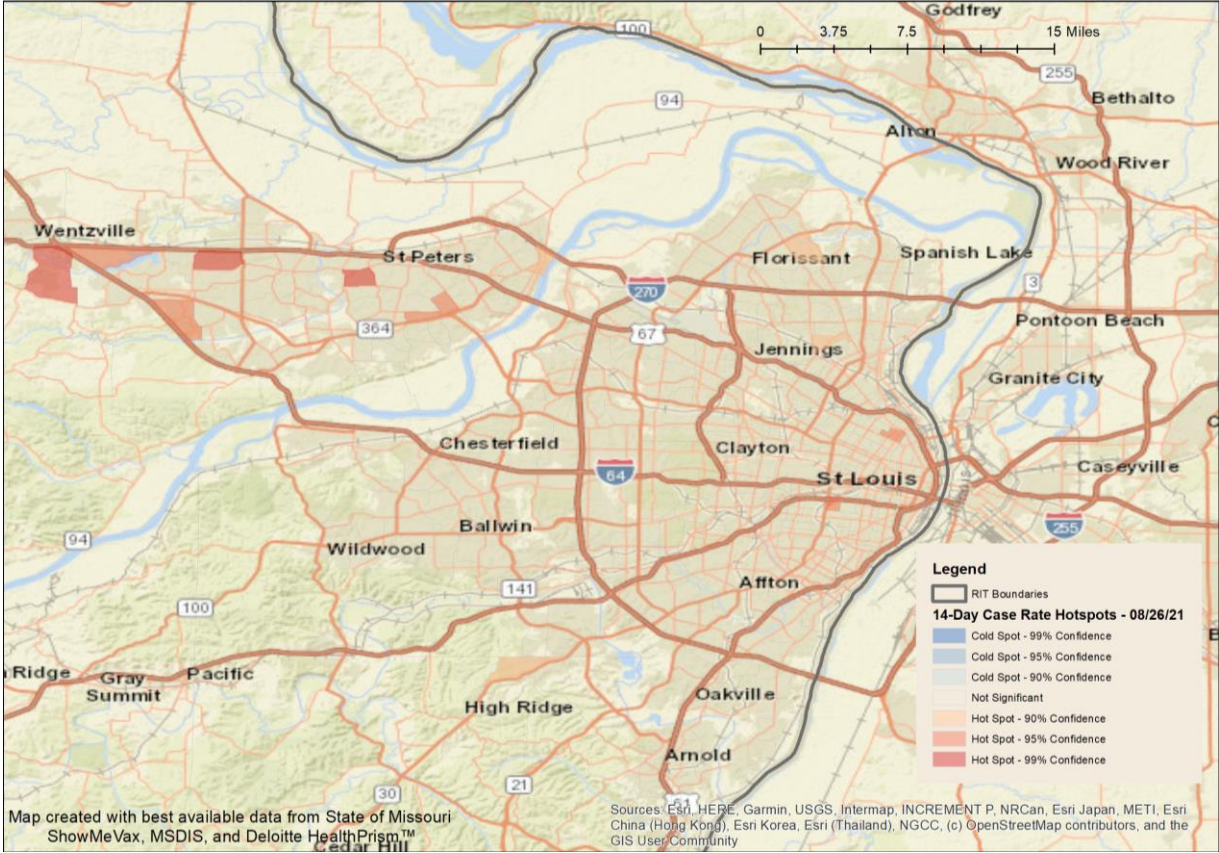


For the time period between 8/12/21 and 8/26/21, case rate hotspots (areas with statistically significant changes in case rates in comparison to surrounding areas) are displayed on the left for Kansas City and on the right for St. Louis

Kansas City



St. Louis



Case rate hotspots persisted in the core of **Kansas City** (16 within I-435) and **St Louis** (3 inside I-270), slightly higher than last week

The communities of **Wentzville** and **St. Peters** (outside of St Louis) have experienced **surges** in **case rate hotspots** over the last 2 weeks

**In Kansas City, 11 of the 16 case rate hotspots** are within the **vulnerable section** of the SE I-435 corridor (according to the COVID-19 Vulnerability Index)

**Note:** Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 8/26/21. Previous 2-week change view provided in the Appendix, along with methodology, data sources, and limitations.

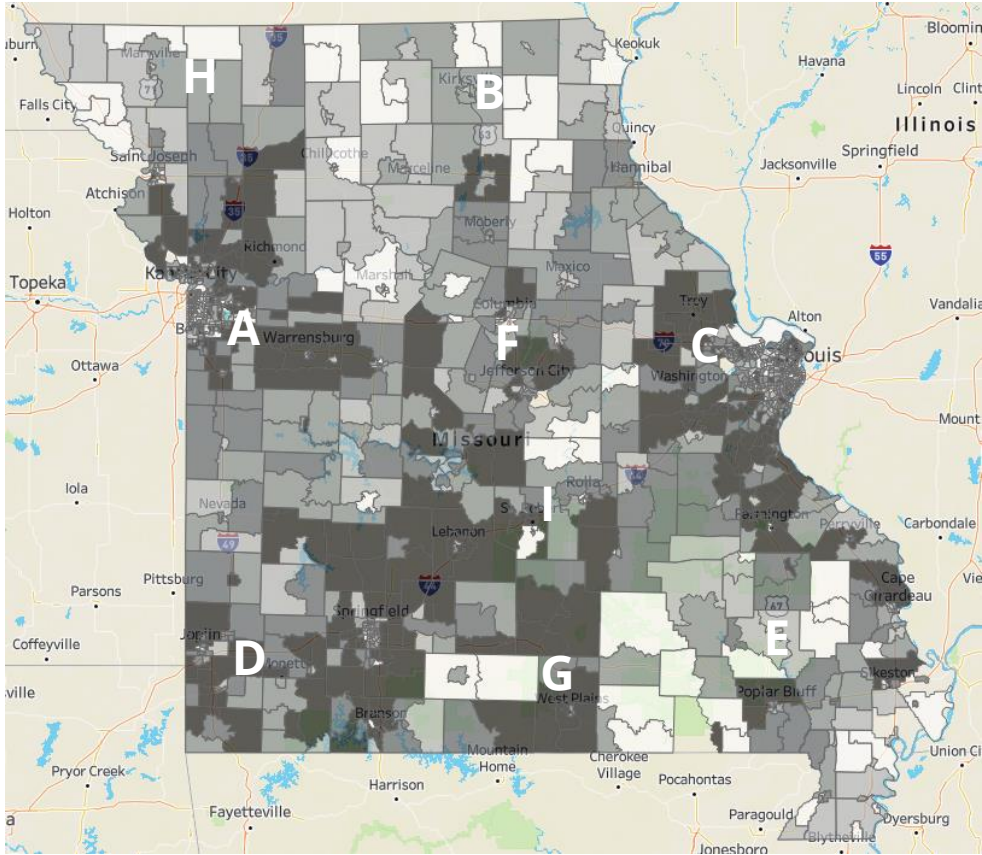


Darker shades in the map on the left indicate Census Tracts with larger vaccination gaps, with regional drill downs for Kansas City and St. Louis provided on the right

VACCINATION GAP (#)

Vaccination Gap Quintiles (#)

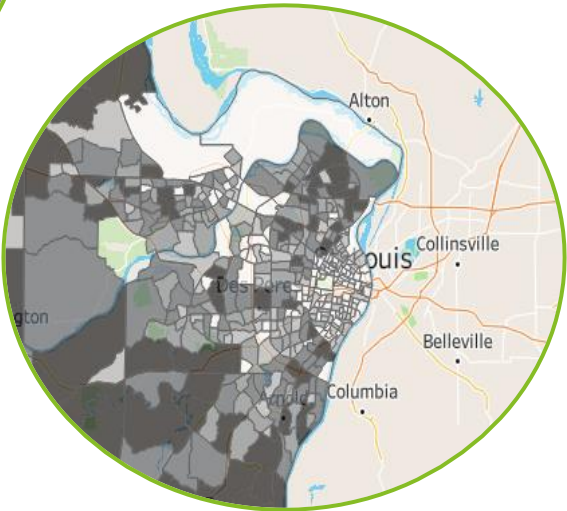
- 0 - 940
- 941 - 1,367
- 1,368 - 1,851
- 1,852 - 2,437
- 2,443 - 6,431



Kansas City



St. Louis



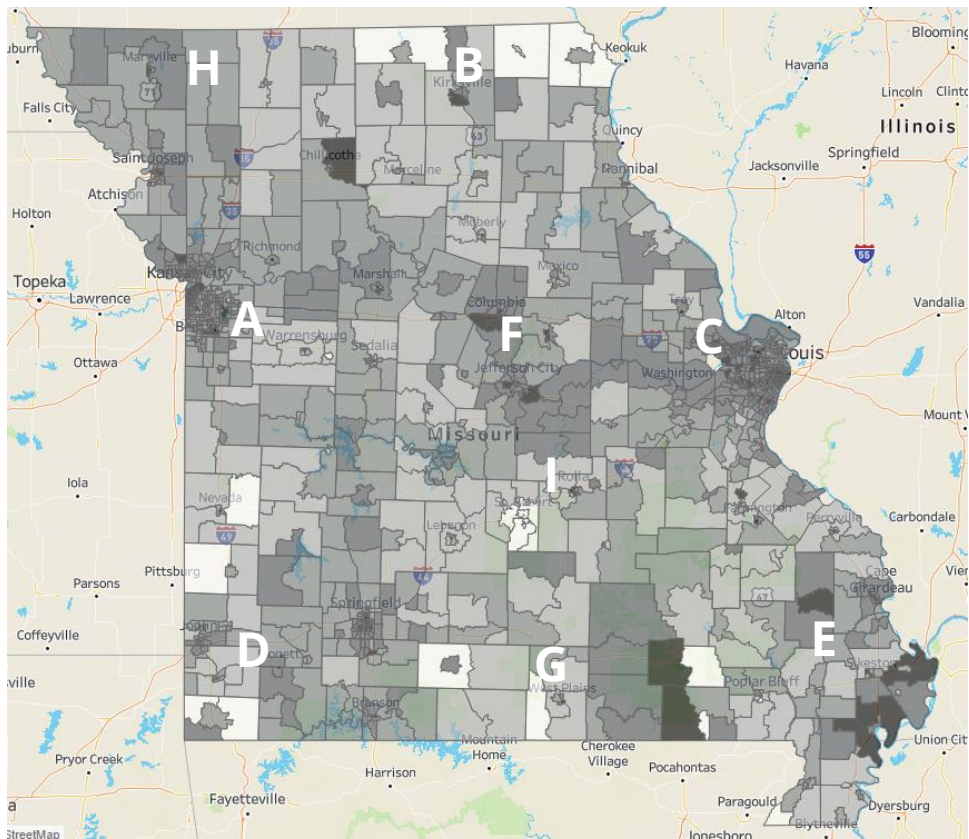
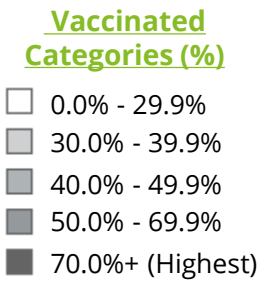
Areas with the largest **vaccination gaps** continue to align with the **more populated areas** across Missouri – typically surrounding urban areas

**Note:** Data on vaccinations include 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated) and are from 8/26/2021. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

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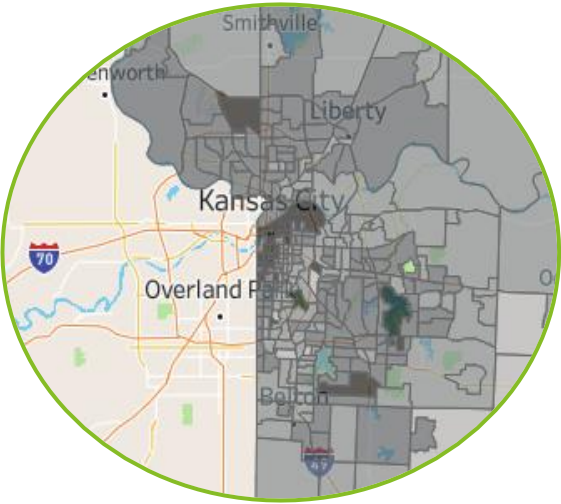
Darker shades on the map on the left indicate Census Tracts with higher percentages of residents who have initiated vaccination – with regional drill downs for Kansas City and St. Louis labeled to the right

PERCENT WITH 1 DOSE (%)

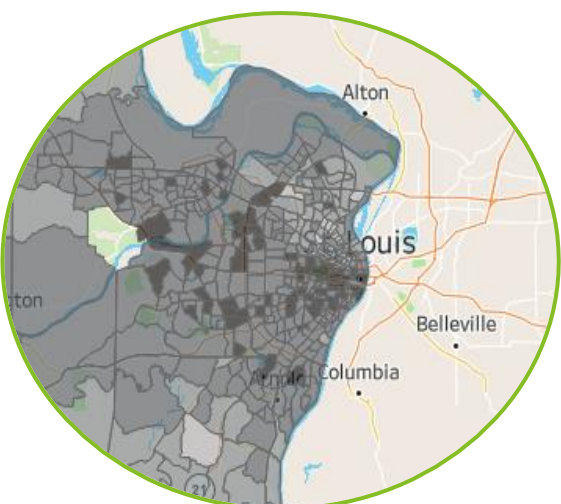


**4% (210K)**  
Est. Amount of  
18+ Population that has  
Received Dose 1 but not Dose 2

Kansas City



St. Louis



Census Tracts with the highest **percentages of unvaccinated populations** are concentrated in more **rural areas** in Regions B, D, I, G, & E

**Note:** Data on vaccinations include 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated) and are from 8/26/2021. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file. Estimate of population having received dose 1 but not dose 2 is calculated by taking the current second dose vaccinations and change in first dose vaccinations over 4 weeks and dividing that total by the total first dose vaccinations.  
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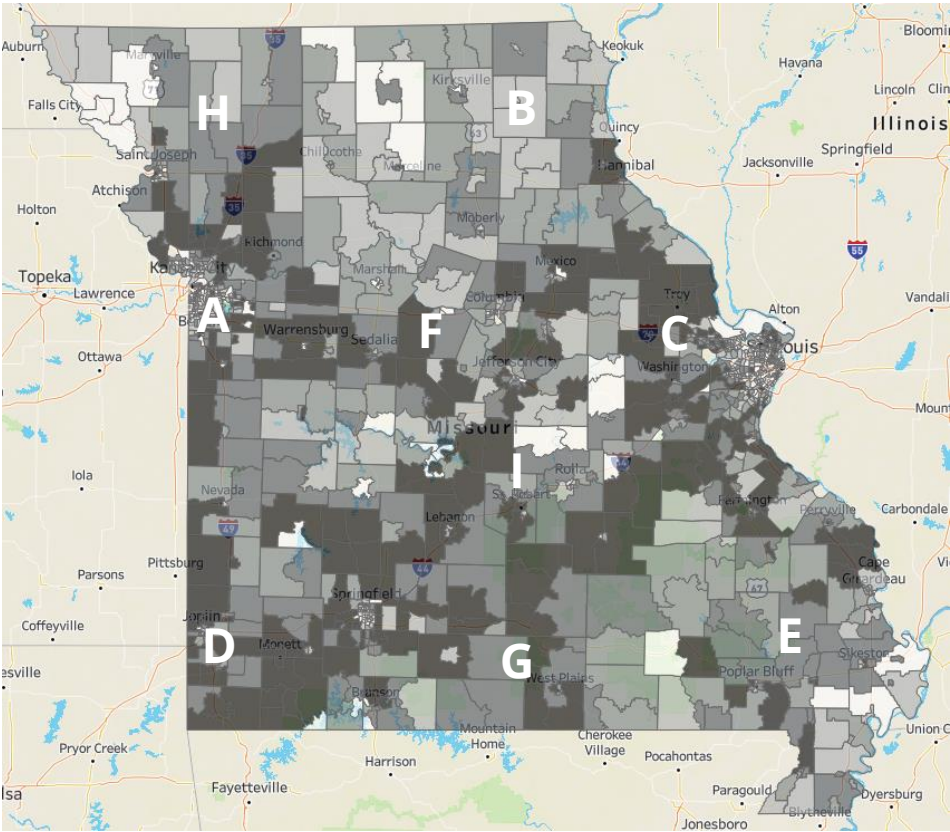


Darker shades on the map on the left indicate counties with larger vaccination gaps with regional drill downs for Kansas City and St. Louis labeled to the right

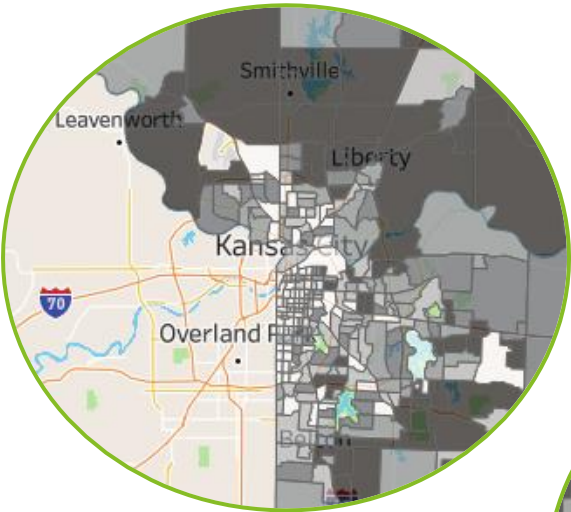
VACCINATION GAP (#)

Vaccination Gap Quintiles (#)

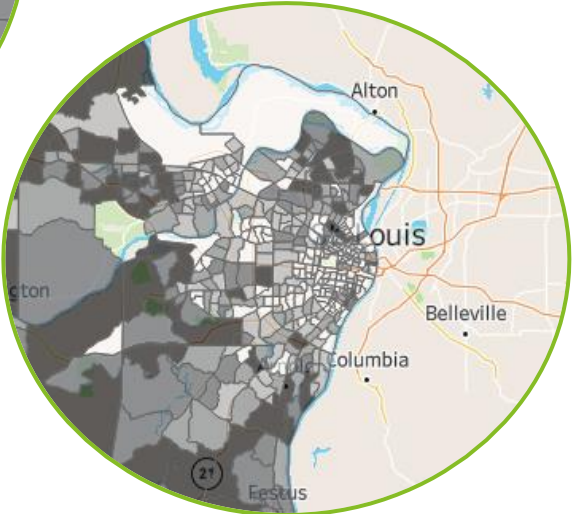
- 0 – 112
- 113 – 172
- 173 – 240
- 241 – 332
- 333 – 803



Kansas City



St. Louis



Similar trends persist for the 12-17 as with the 18+ population – **more populated/urban areas have the largest number of unvaccinated**  
**Region C** continues to have the **largest vaccination gap** (91,760) for the 12-17 population

**Note:** Data on vaccinated individuals are based on 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual vaccinated, and as of 8/26/2021. All vaccinations tagged to the “<18” age group were assumed to be between ages 12-17. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

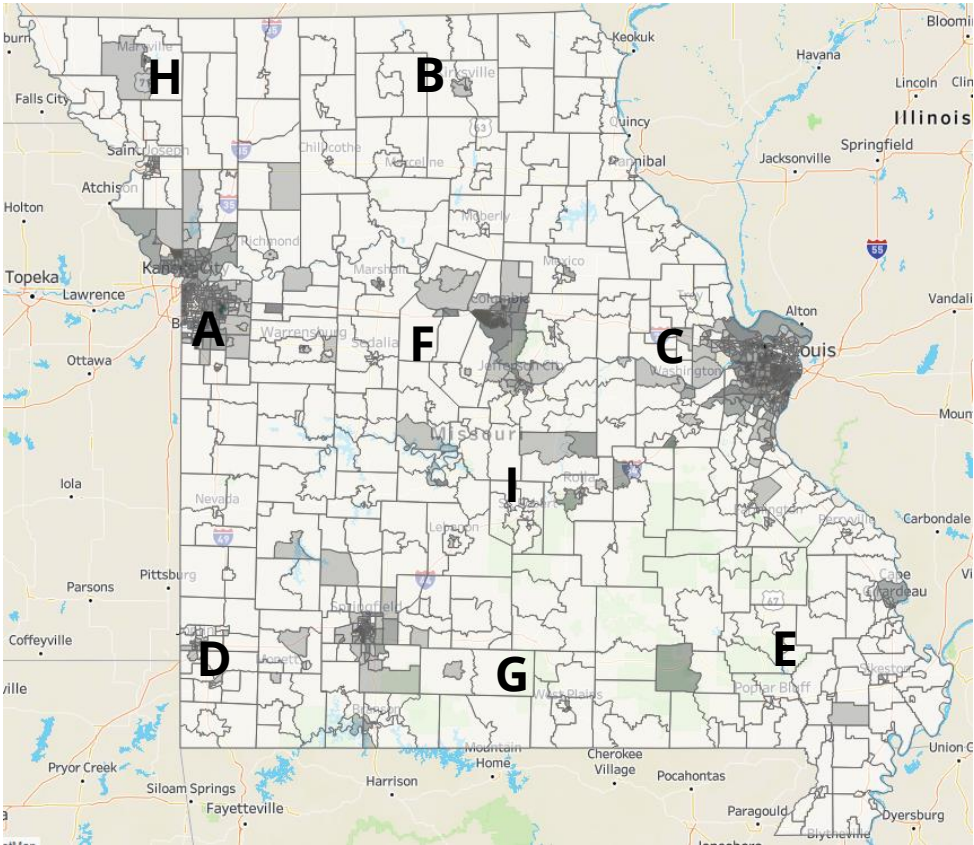


Darker shades on the map on the left indicate counties with higher percentages of residents who have initiated vaccination – with regional drill downs for Kansas City and St. Louis labeled to the right

PERCENT WITH 1 DOSE (%)

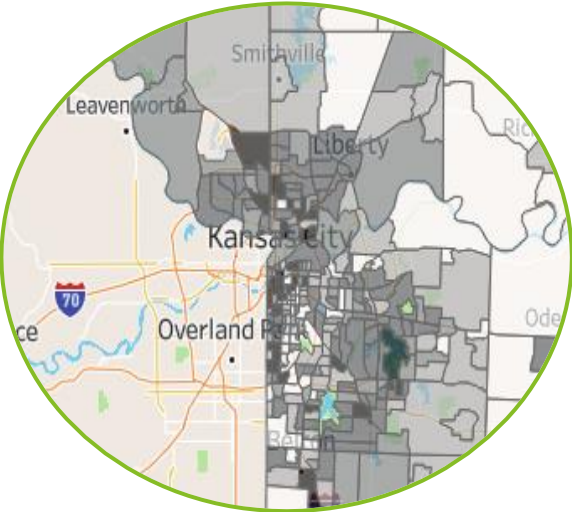
Vaccinated Categories (%)

- 0.0% - 29.9%
- 30.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 69.9%
- 70.0%+ (Highest)

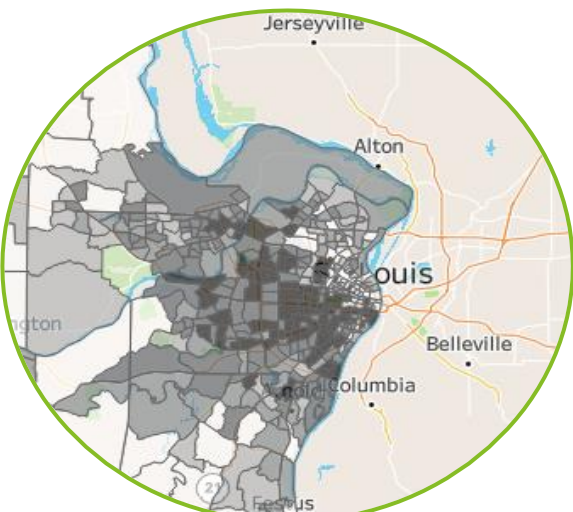


9% (41K)  
Est. Amount of  
12-17 Population that has  
Received Dose 1 but not Dose 2

Kansas City



St. Louis

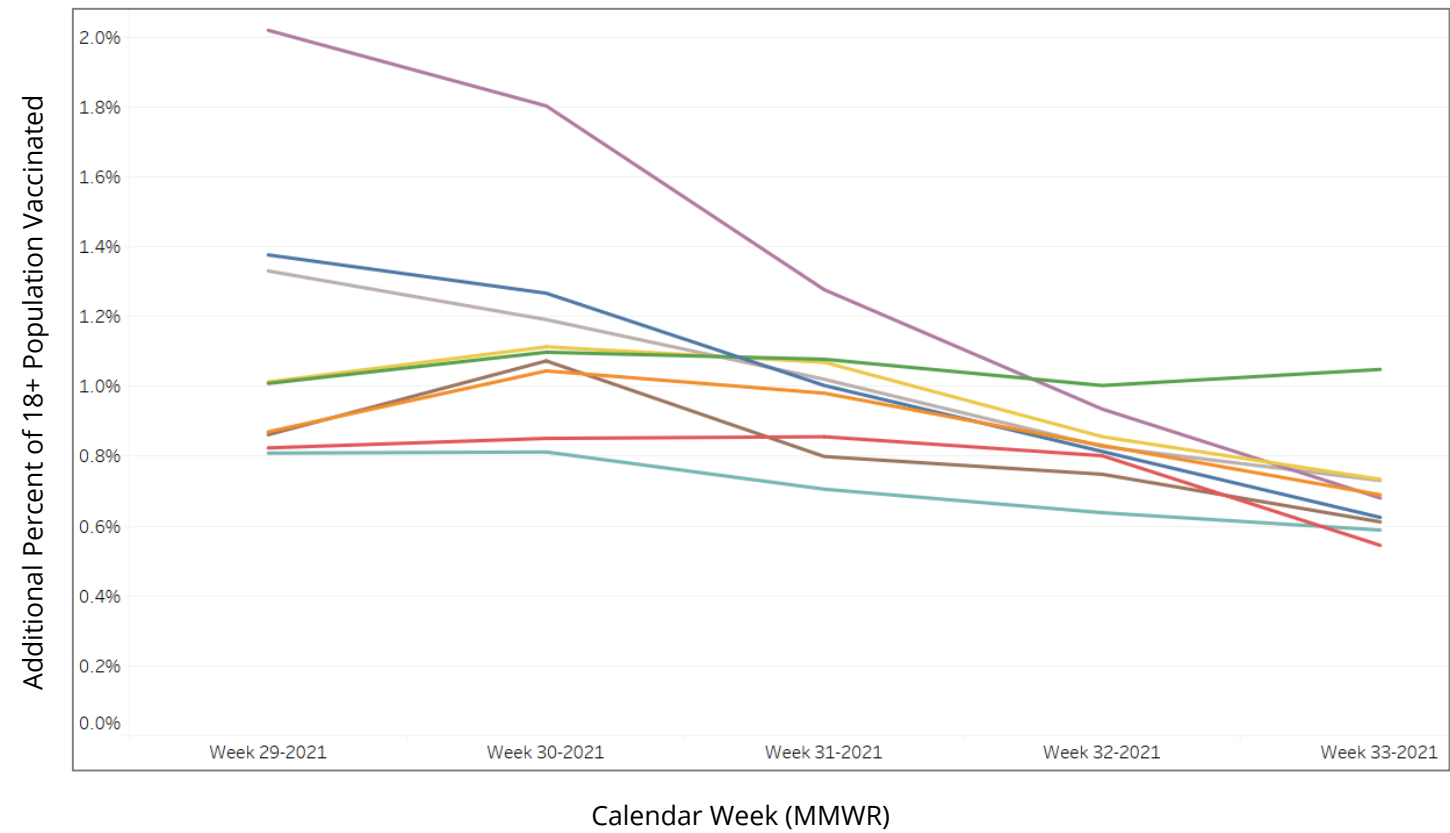


The 12-17 cohort continues to lag behind 18+ – Region C has the highest percent vaccinated (47.3%) for this group, while Region G has the lowest (15.3%)  
Similar to the 18+ population – urban areas tend to have larger % vaccinated rates

**Note:** Data on vaccinated individuals are based on 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual vaccinated, and as of 8/26/2021. All vaccinations tagged to the “<18” age group were assumed to be between ages 12-17. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file. Estimate of population having received dose 1 but not dose 2 is calculated by taking the current second dose vaccinations and change in first dose vaccinations over 4 weeks, and dividing that total by the total first dose vaccinations.

The visualization and table below display weekly and cumulative vaccination rates at the regional level. Week 33 (8/15 – 8/21) is the most recent complete week

5-Week Additional Percent of 18+ Population Vaccinated by Region



Regional Vaccination Summary

	18+ Cumulative % Vax	18+ % Vax Previous Week	12-17 Cumulative % Vax	12-17 % Vax Previous Week
A	52.3%	0.7%	42.0%	1.9%
B	43.5%	0.5%	16.0%	0.9%
C	58.5%	0.6%	<b>48.0%</b>	1.8%
D	49.1%	0.6%	29.5%	1.6%
E	45.9%	1.0%	17.7%	2.1%
F	<b>58.9%</b>	0.7%	35.7%	2.0%
G	42.3%	0.7%	<b>15.3%</b>	1.2%
H	50.8%	0.6%	24.3%	1.3%
I	<b>40.2%</b>	0.7%	21.4%	1.8%

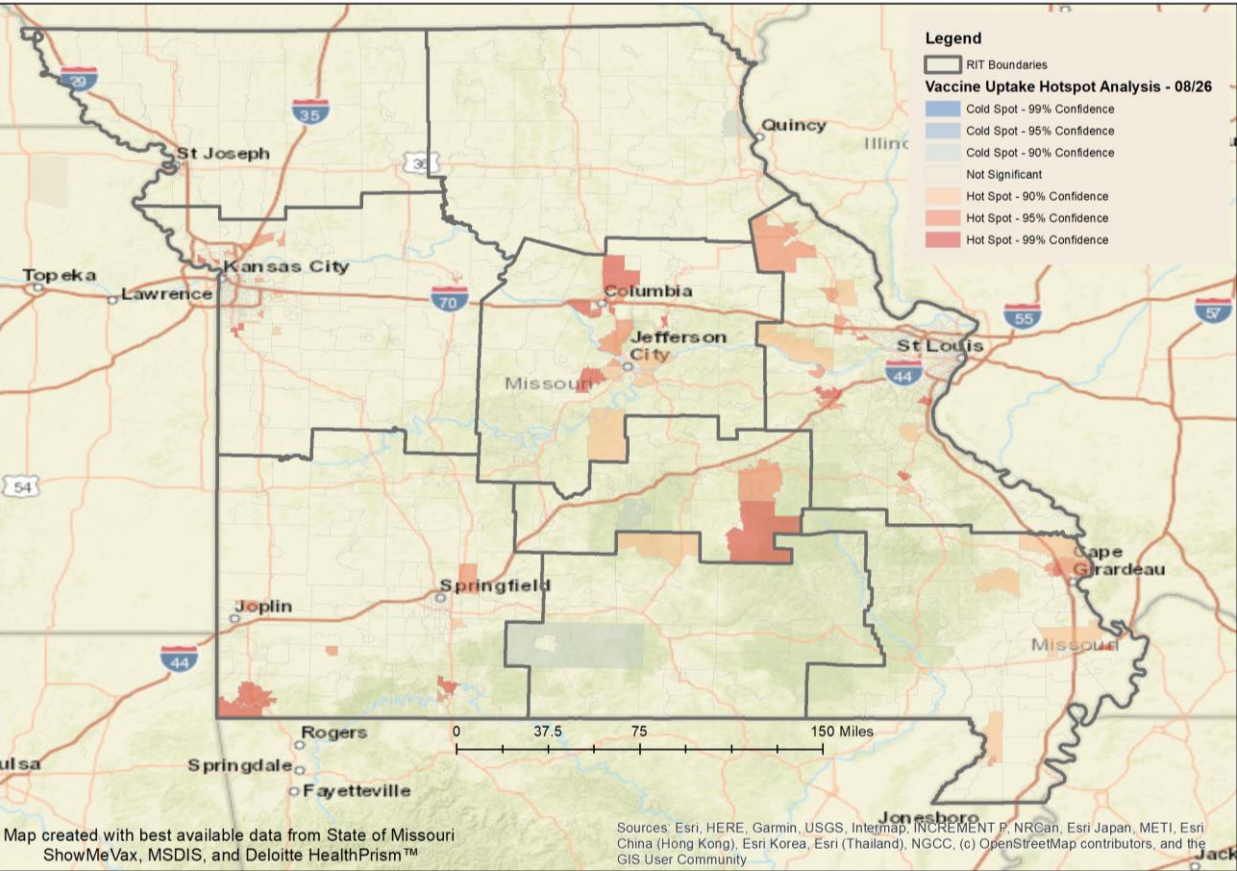
Bolded percentages indicate the highest and lowest cumulative % vaccinated

Vaccine initiations fell in both the 18+ and 12-17 population for the 3rd straight week, but were close to the 10-week average of ~35k per week  
12 counties vaccinated more than 1% of their 18+ population in Week 33, 7 of which are in Region E

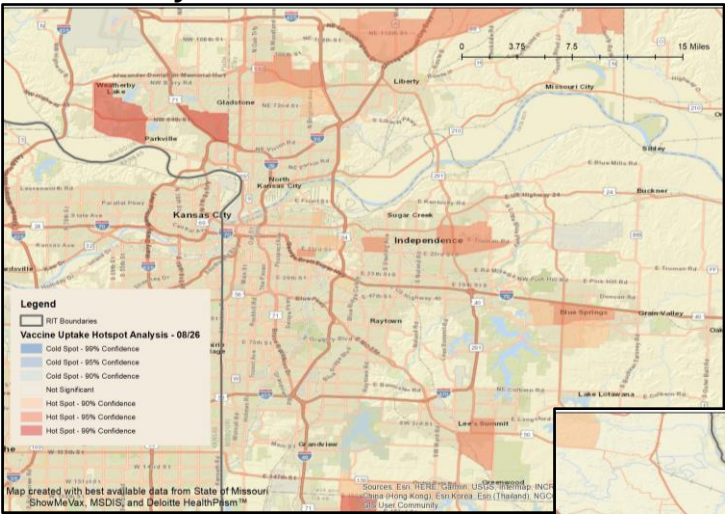
**Note:** All weeks are calendar weeks, defined by SMV using MMWR week, where Week 33 is 8/15 – 8/21. Data on vaccinations include 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated, and are from 8/26/2021. J&J vaccinations are coded as both dose 1 and dose 2. Methodology, data sources, and limitations are available in the Appendix.



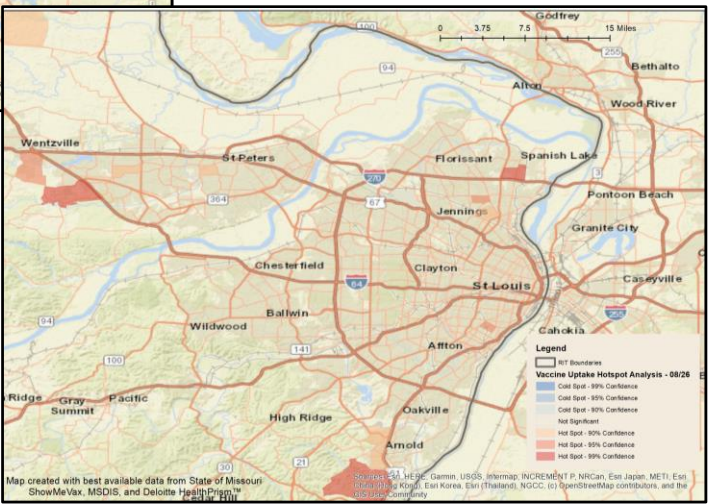
Vaccination uptake hotspots for 08/20 - 08/26 are displayed below in red. These vaccine uptake hotspots represent the communities that far exceeded the State average for the dates indicated



Kansas City



St. Louis

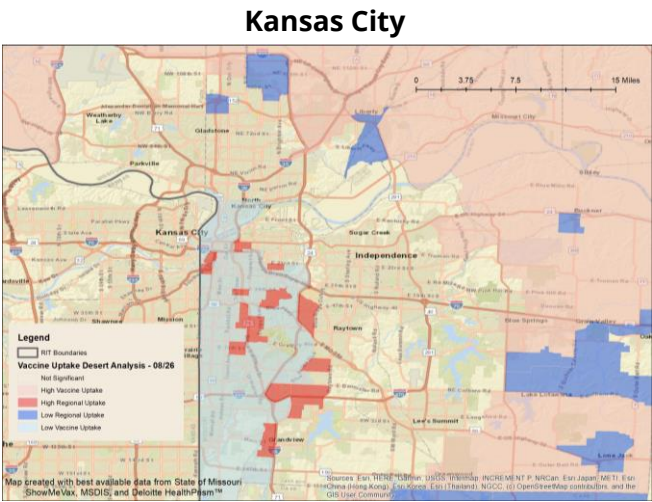
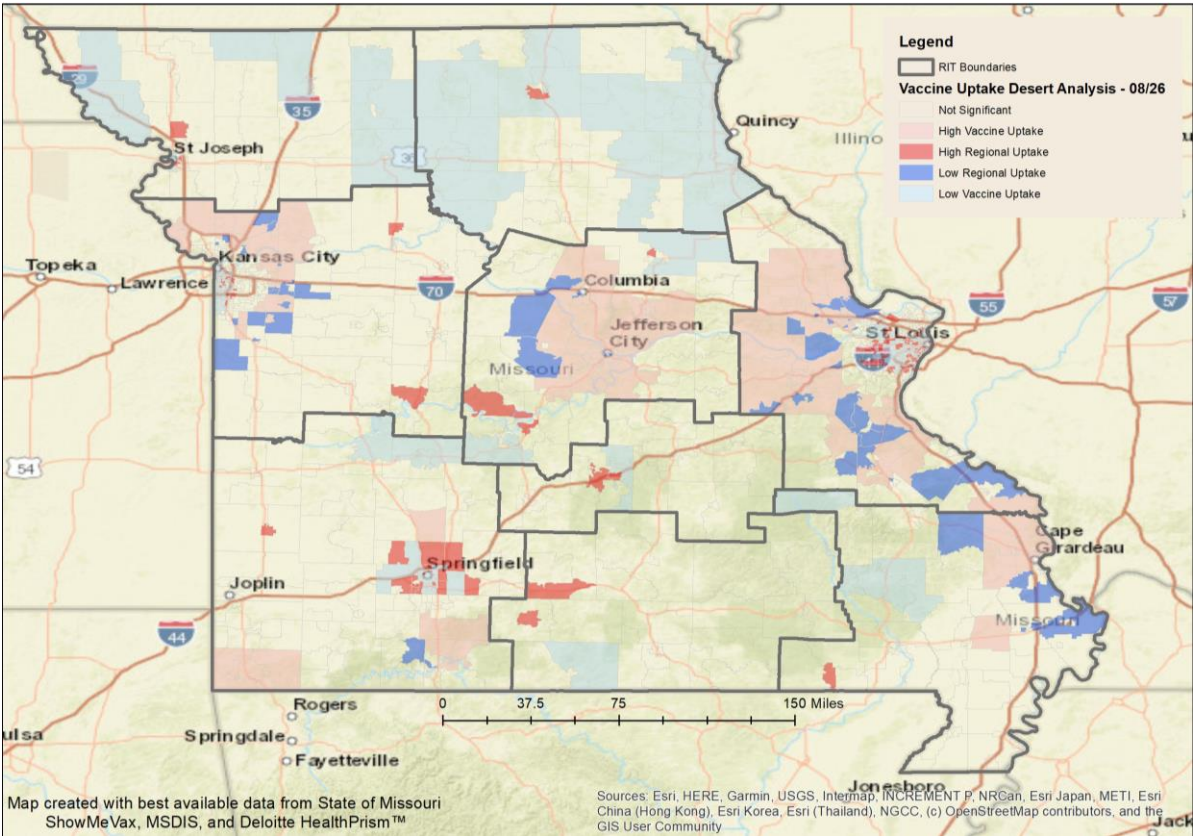


**Regions A, C & F contain the largest percentage (74%) of vaccine uptake hotspots throughout the State – mainly in the Census Tracts surrounding St. Louis, Kansas City and Columbia/Jefferson City**

**Uptake hotspots continue to be linked to major transportation routes (I-44, I-70, I-35, I-55, US 54 and US 63)**



Vaccination uptake deserts are displayed in shades of blue from 8/20 - 8/26, indicating Census Tracts where the weekly vaccine uptake is significantly lower than State and/or regional averages – a more sensitive test of differences in community-level uptake in comparison to the hotspot analysis



### How to interpret these maps:

- High Vaccine Uptake**  
Statistically significant clusters of high statewide initiation rates
- High Regional Uptake**  
Statistical outlier – high initiation rates surrounded by low
- Low Regional Uptake**  
Statistical outlier – low initiation rates surrounded by high
- Low Vaccine Uptake/Uptake Desert**  
Clusters of statistically low statewide initiation rates

Majority of vaccine uptake deserts (by **area**) exist in Regions **B and H**; majority of vaccine uptake deserts (by **population**) are in **urban** clusters (Kansas City, Springfield and St. Louis)

Suburban/exurban regions surrounding Kansas City, **Columbia/Jefferson City**, and **St. Louis** led the State in 1<sup>st</sup> dose vaccinations

**Regional and State highs in vaccine initiations in St. Louis and Columbia/Jefferson City** are often occurring in CTs at or near **>70% vaccine uptake** (1<sup>st</sup> dose)

**Note:** Data on vaccinated individuals is based on 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, includes all ages, and indicates the residence of the individual vaccinated, and is as of 8/26/2021. Methodology, data sources, and limitations are available in the Appendix.



# Region A Deep-Dive

*As presented on 8/27*

REGIONAL  
& COUNTY  
TRENDS

- **Case rates** have **increased** across Region A over the past 3 weeks
- Diffusion of elevated case rates indicate a **spread along major transportation routes, connecting regional hubs**
- Hotspots outside of Kansas City **emerge at central locations within counties** or at **transportation route junctions**, such as Warrensburg & Sedalia
- Region A is the **3<sup>rd</sup> highest vaccinated**, yet 127 of 340 (**37%**) **Census Tracts** in Region A have **under 40%** of their populations vaccinated

TARGET  
CENSUS  
TRACTS

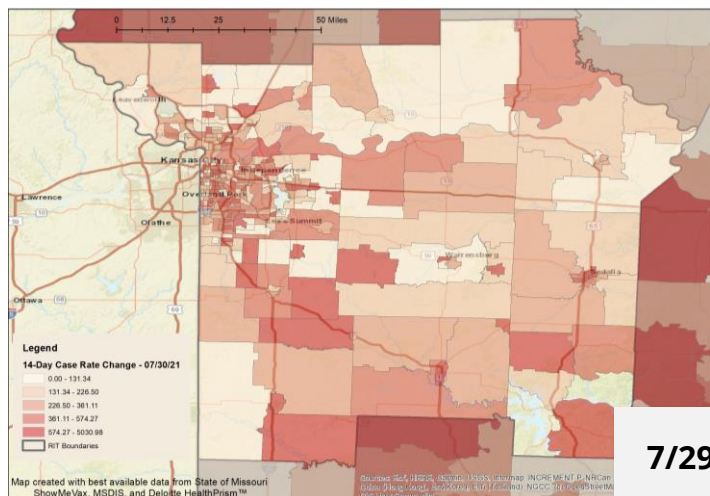
- All 10 Census Tracts identified for Region A have a population that is **less than 45% vaccinated**
- Of the 10 Census Tracts identified, **9 are in the top 150 statewide** of our COVID-19 Vulnerability Index (CVI)
- Within these Census Tracts, residents tend to be more **racially diverse and religious**, have **lower levels of income and educational attainment**, and are **less likely to have health insurance** than the average Missourian

**Note:** Data on vaccinations include 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated), and are from 8/19/21. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 8/6/21 to 8/20/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

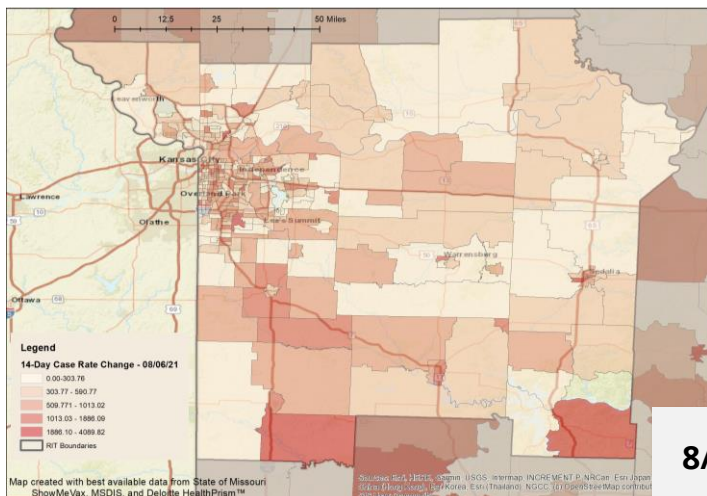
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These visuals display the evolution of 14-day COVID-19 case rates over the past 4 full weeks (July 29<sup>th</sup>- Aug 19<sup>th</sup>) in Region A



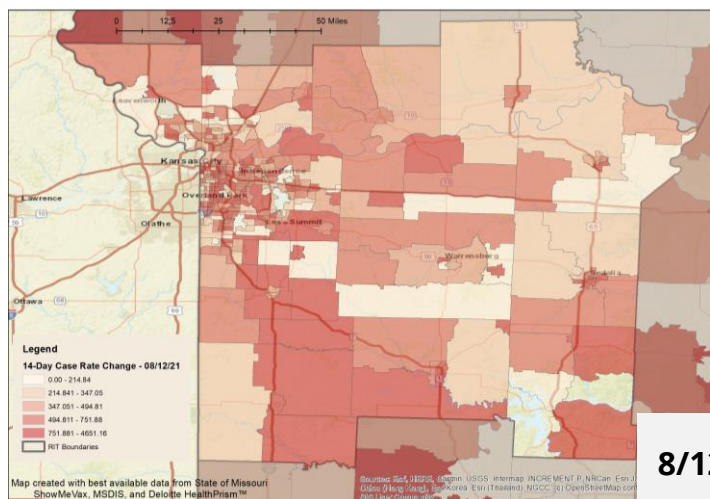
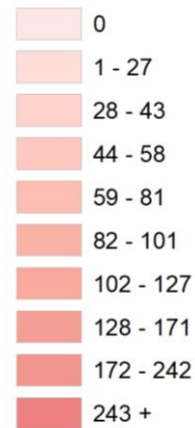
7/29



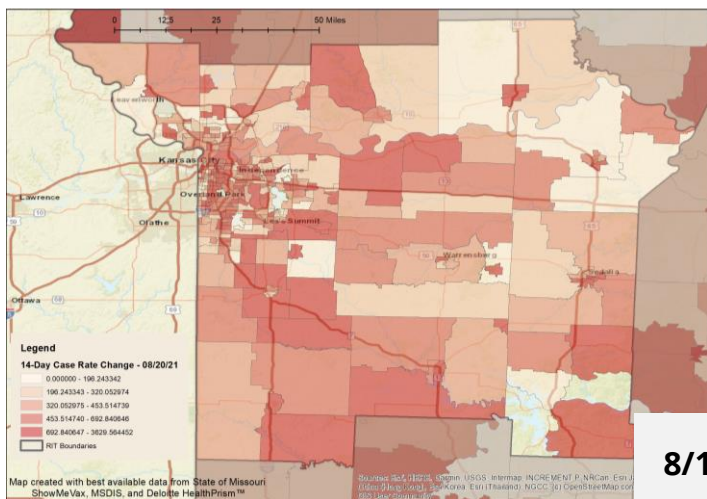
8/5

## Legend:

### Case Rate Deciles



8/12



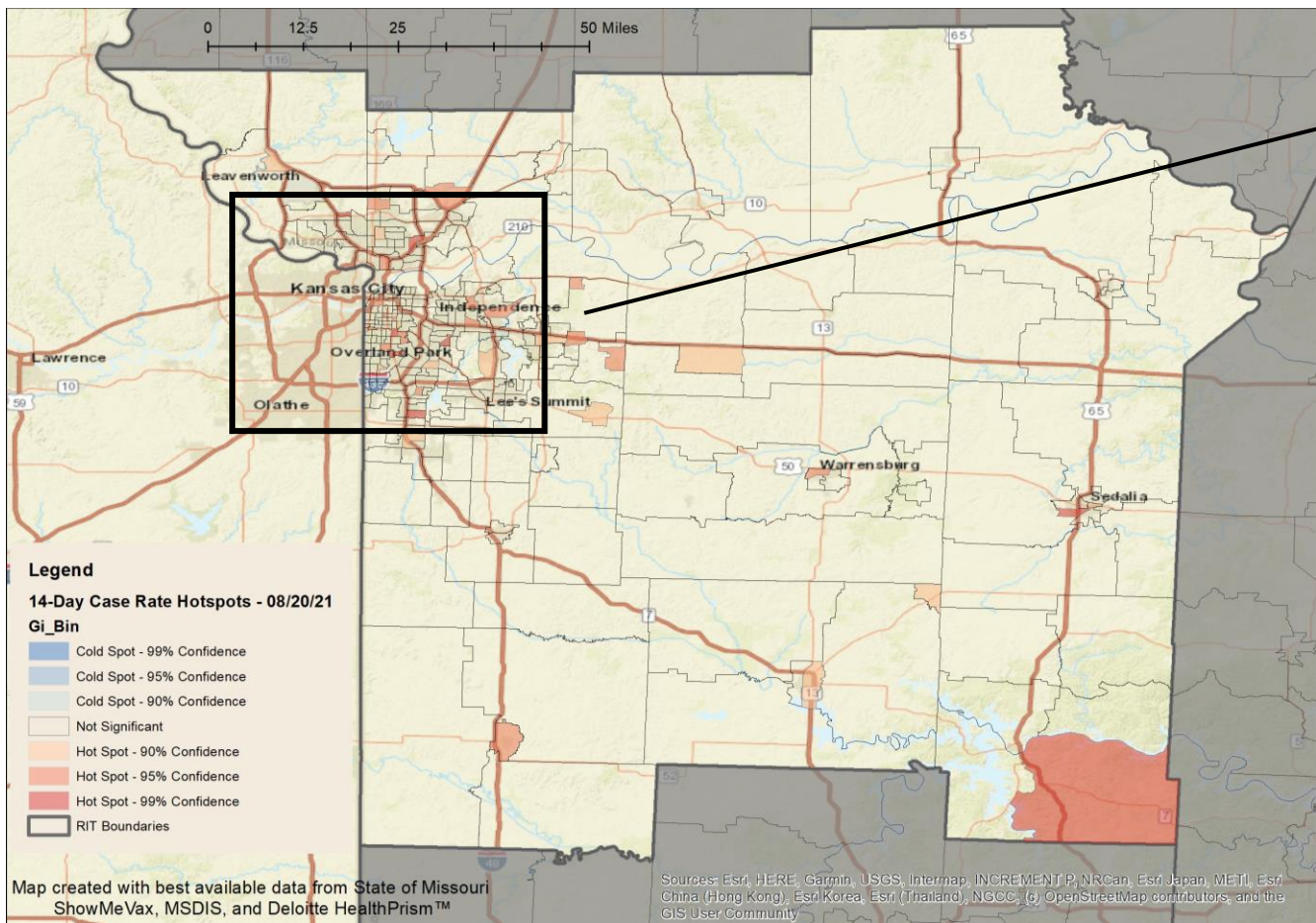
8/19

- Over the **past 3 weeks, case rates** have **increased** in Region A
  - Case rates began at elevated levels, decreased for the period ending on 8/5, and then rapidly increased
  - Case rates are elevated across the Region as compared to the time ending 7/29
- Pattern of elevated case rates** indicate **diffusion from regional hubs** (e.g. Marshall, Warrensburg, Sedalia, Butler, Clinton)
  - Spread along major transportation routes
  - Hubs of high case rates** in centers of activity and interaction
- High levels of disease **spread across Region A** and potentially **extending to neighboring regions**

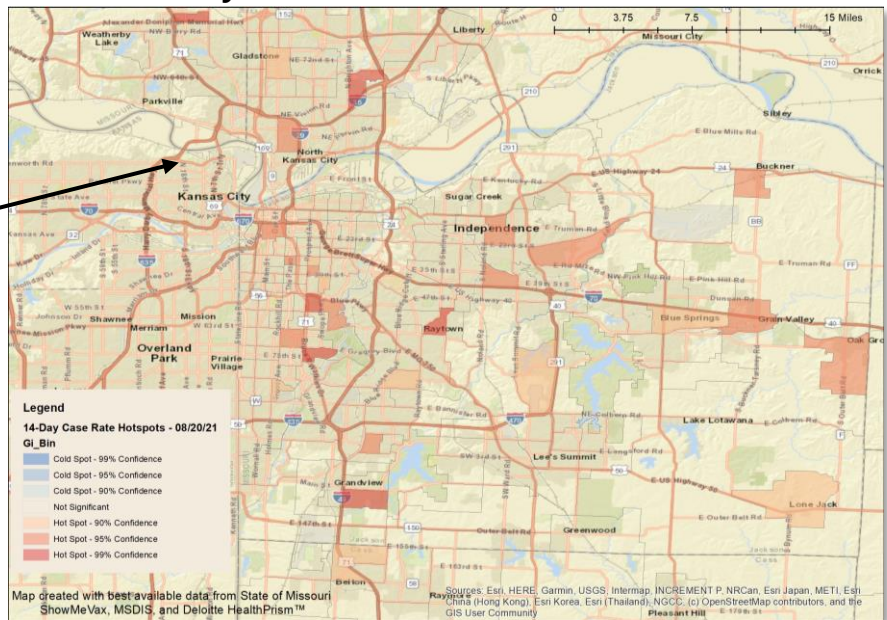


The visual on the left depicts case rate hotspots – areas with statistically significant changes in case rates in comparison to surrounding areas – between August 6<sup>th</sup> and August 20<sup>th</sup>

## 14-Day Case Rate Hotspots (8/6-8/20)



## Kansas City



## KEY OBSERVATIONS

- For the two-week period through August 20<sup>th</sup>, case rate hotspots in Region A **followed transportation routes within and outside of Kansas City**
- Hotspots outside of Kansas City **emerge at central locations within counties** or at **transportation route junctions**, such as Warrensburg
- Recent patterns of case spread in Missouri have reflected a similar **connection to transportation routes and activity centers**

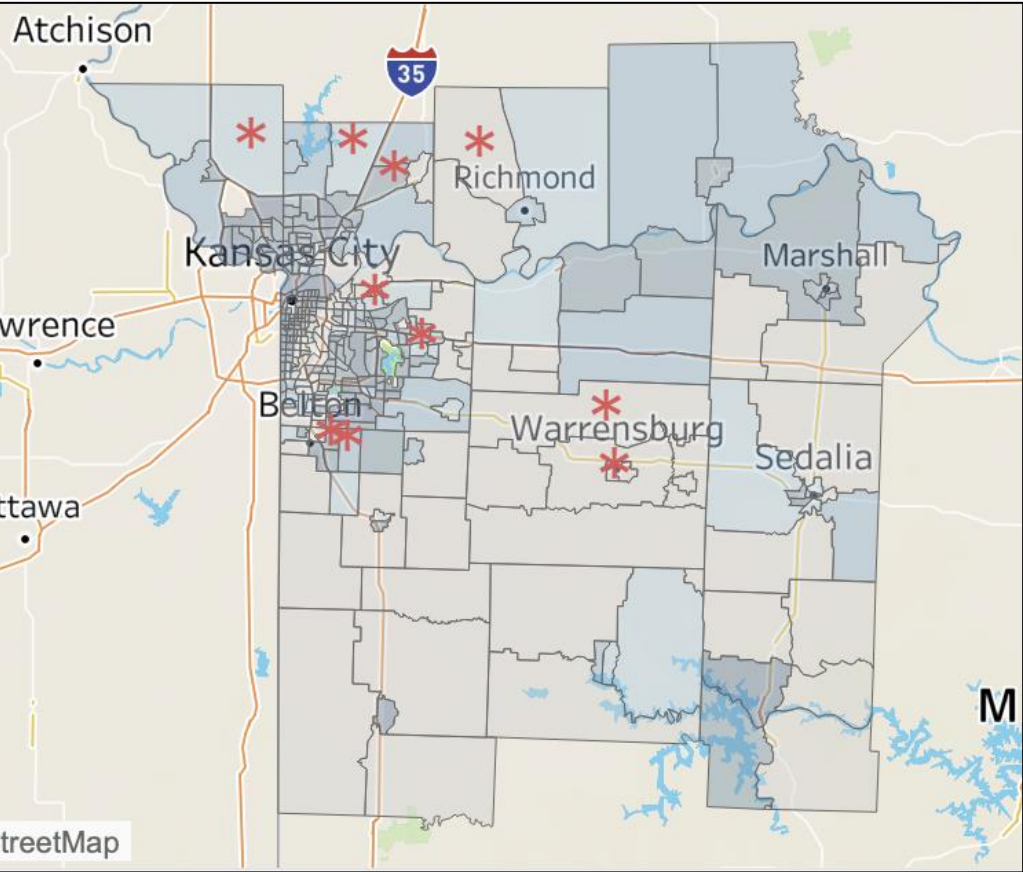
**Note:** Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 08/20/21. See Appendix for methodology, data sources, and limitations.

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The visual and table below depict percent vaccinated and vaccination gap across Region A

Region A Percent Vaccinated (%)



**Key**

**Vaccinated (%) | 340 CTs**

- 0% - 29.9% | 89
- 30% - 39.9% | 38
- 40.0% - 49.9% | 52
- 50.0% - 69.9% | 77
- 70.0% - 99.9% | 84

**\* Top 10 CTs by Vaccination Gap (#)**

Rank	Census Tract	County	Adult Population	% Vaccinated
Statewide Average			3,678	52.19%
Region A Average			3,475	52.33%
1	29101980000	Johnson	1,205	14.85%
2	29095989100	Bates	3,169	30.99%
3	29013070200	Johnson	3,917	31.45%
4	29095980101	Johnson	4,184	33.08%
5	29101960700	Johnson	4,523	33.12%
6	29101960900	Jackson	2,362	34.17%
7	29101960200	Pettis	3,252	34.19%
8	29095009500	Henry	2,508	34.77%
9	29159480100	Jackson	3,459	35.13%
10	29083950100	Bates	2,407	35.31%

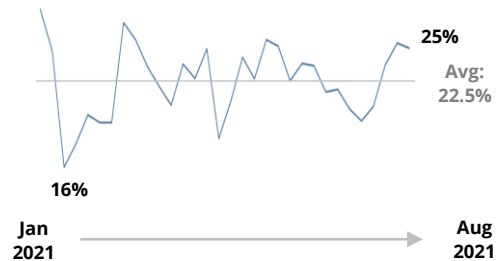
Four of the top 10 Census Tracts with the **lowest percent vaccinated are in Johnson County**  
127 of 340 **(37%) Census Tracts** in Region A have under 40% of their populations vaccinated

**Note:** Data on vaccinated individuals are based on 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual vaccinated, and as of 08/19/2021. Methodology, data sources, and limitations are available in the Appendix.

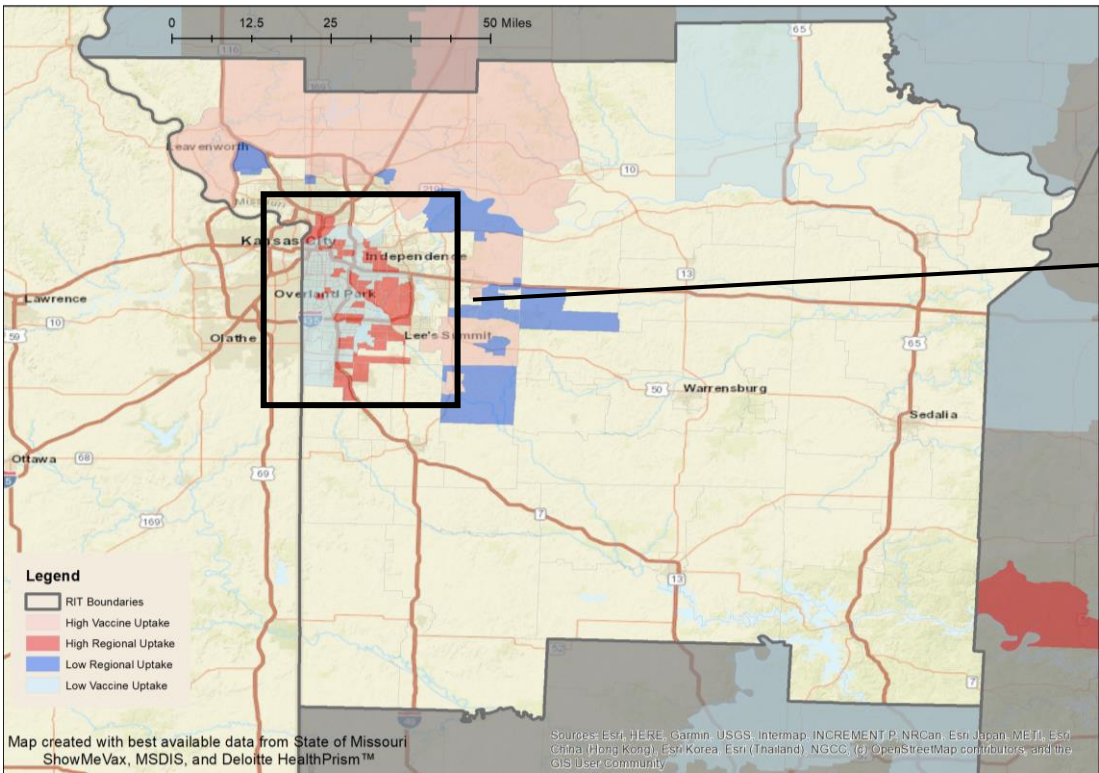


Vaccine uptake deserts are shown in blue over a 4-week period, identifying Census Tracts where vaccine uptake for that time period was significantly lower than State average

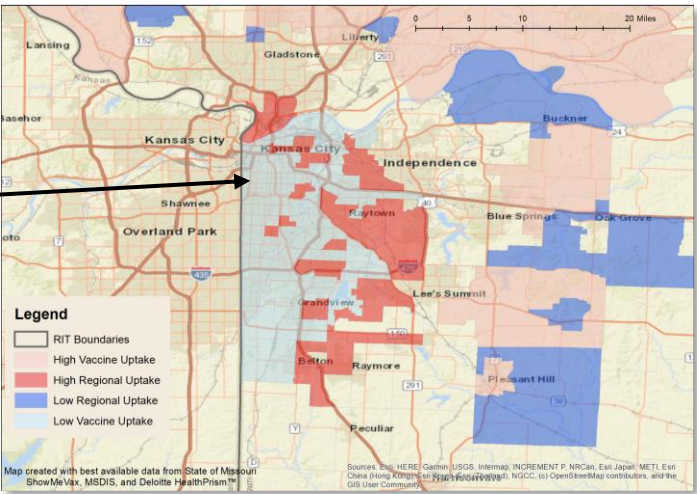
Region A Share of Missouri's 18+ Initiations



Vaccine Uptake Deserts  
July 23rd - Aug 20th



Kansas City



Region A is the **3<sup>rd</sup> highest** vaccinated Region and typically represents between **20-25% of statewide 18+ weekly initiations**

Vaccine uptake deserts cover most of the **city proper (and most densely populated Census Tracts)** within the **Kansas City Metro**

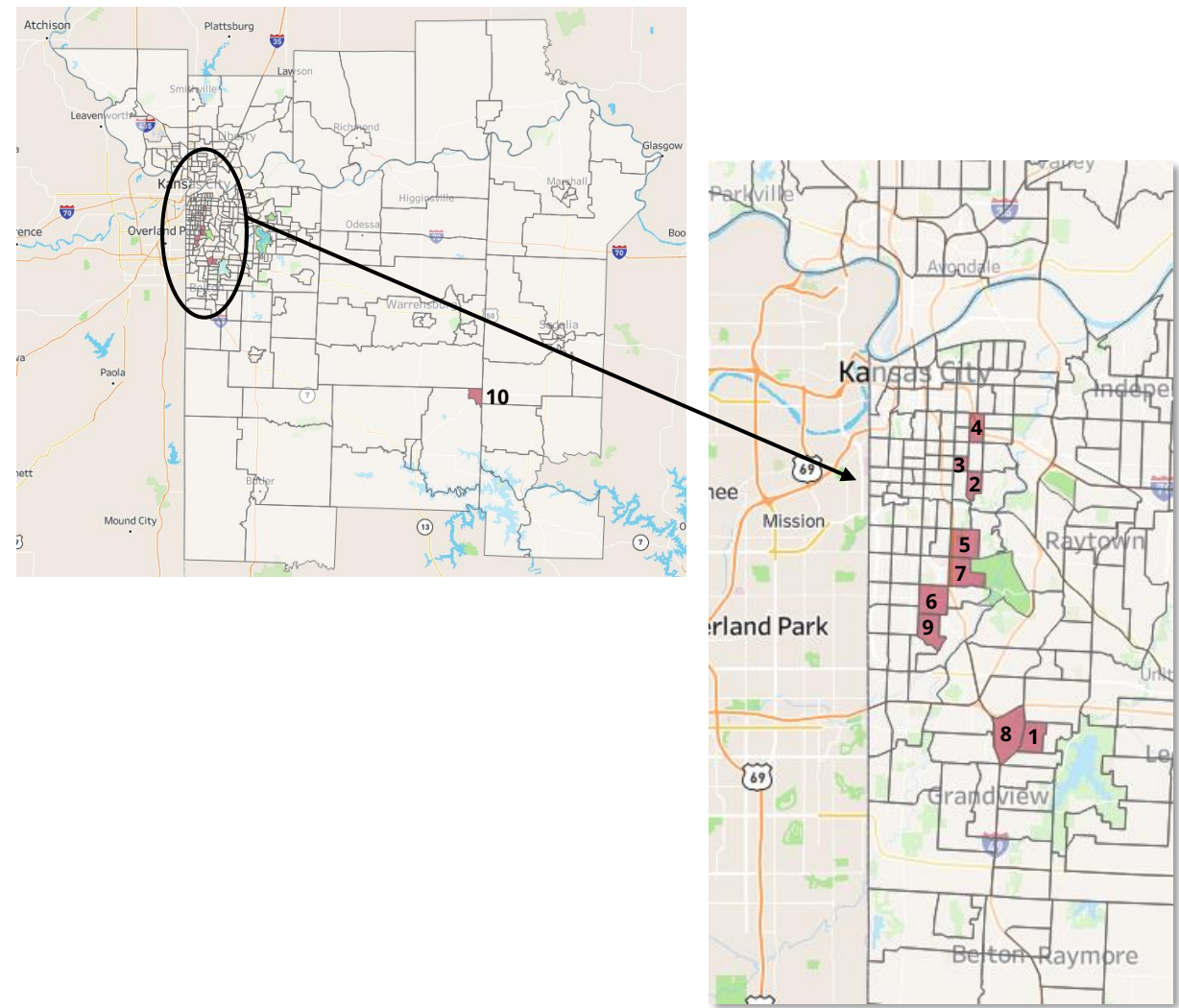
**Northern and eastern suburbs/exurbs of Kansas City** have shown the **highest vaccine uptake** in Region A, and regional highs have emerged in **vulnerable urban** communities

**Note:** Vaccine uptake desert analyses employ Local Moran's I test for spatial autocorrelation. Data on vaccinations include 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the individual vaccinated (all ages), and are from 8/19/2021. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.

# Target Census Tracts

## *Potential Areas to Focus Outreach Initiatives*

The map below highlights Census Tracts that could be targeted for outreach within Region A



To identify **target tracts** in Region A, we analyzed relationships between:

- 1 14-Day COVID-19 case rate burden/change
- 2 Percent of population unvaccinated
- 3 Ranking based on the COVID-19 Vulnerability Index (CVI)\*

Using the above methodology, below are the **top 10 Census Tracts**, which are discussed further in the following slides:

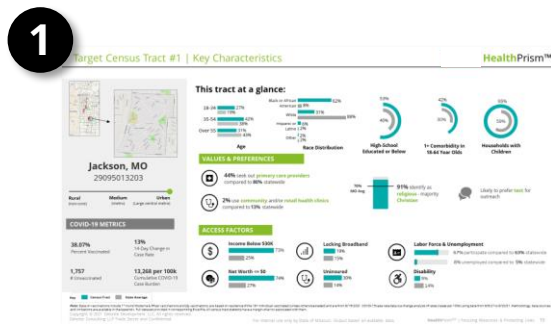
Rank	Census Tract	County
1	29095013203	Jackson
2	29095006000	Jackson
3	29095005602	Jackson
4	29095016500	Jackson
5	29095007900	Jackson
6	29095009000	Jackson
7	29095008800	Jackson
8	29095013100	Jackson
9	29095009500	Jackson
10	29083950100	Henry

All 10 Census Tracts have an 18+ population that is **less than 45% vaccinated**

**Note:** Data on vaccinations include 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, are based on residence of the 18+ individual vaccinated (unless otherwise stated), and are from 8/19/21. COVID-19 case rate data is a change analysis of rates (cases per 100k) using data from 8/6/21 to 8/20/21. Methodology, data sources, and limitations are available in the Appendix. Full data set provided in corresponding Excel file.  
\*CVI includes percent below 138% FPL, 1+ comorbidity, minority, cumulative case rate, and percent unvaccinated

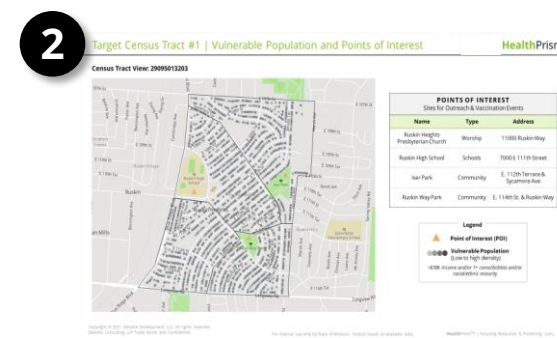


Demographic and behavioral characteristics of each area, coupled with local points of interest (POIs), can enable understanding of local nuances to conduct more targeted outreach in a given community



## What are the key characteristics of this population?

- ✓ Review COVID-19 metrics
- ✓ Develop a deeper understanding of the Census Tract's demographic traits, values/preferences, needs, and potential barriers to access



## Where are optimal locations to conduct outreach?

- ✓ Pinpoint areas of high and low density for both vulnerable populations and sample Points of Interest
- ✓ Identify potential partners based on insights from the key characteristics and the Points of Interest list

The following intend to leverage local knowledge in combination with the local characteristics and POIs to enable targeted interventions that boost vaccine uptake

## 3 What are general considerations for outreach?

### PREPARATION



#### Understand the population.

Make space for open dialogue to grasp local concerns. When possible, supplement quantitative data about the community with personal stories via listening sessions/ focus groups – ideally including local leaders.



#### Co-create solutions.

Collaborate with target communities to build action plans for their neighborhoods, highlighting the community's involvement – potentially resulting in higher buy-in and more tailored solutions.



#### Involve trusted messengers.

Use local expertise and key population characteristics to identify and involve community leaders, to build trust and get involved in outreach.

### MESSAGING



#### Address concerns.

Work through fears and anxieties with empathy, providing factual information and being transparent on unknowns. Listening and acknowledging concerns can be especially effective when coming from the right trusted messenger.



#### Keep it simple.

Create materials that are easy to understand/culturally inclusive yet informative, especially for low literacy populations. Consider infographics with images and icons to convey the most important information.



#### Highlight personal stories.

Leveraging the power of narrative over statistics, share stories about people similar to the target community who *have* been vaccinated, highlighting how they overcame their concerns/barriers and how it has benefited them.

### TAKING ACTION



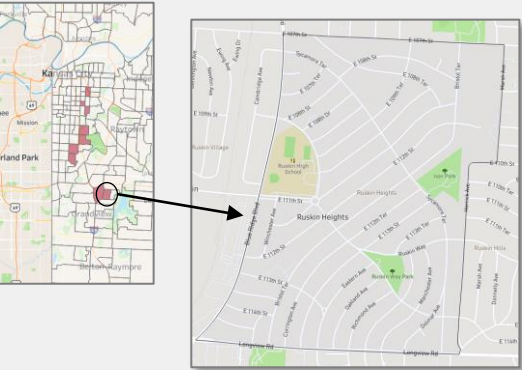
#### Remove barriers.

Meet people where they are – mobile clinics at homes, schools, and places of work with weekend/evening hours. Encourage local employers to offer paid time off and/or childcare to get the shot. Consider offering vaccination along with other routine care or social services.



#### Make specific plans.

For people who intend to be vaccinated but haven't, breaking down the goal can help. Support taking concrete steps like booking an appointment and ask for barriers they might encounter (e.g., transportation) and work through solutions.



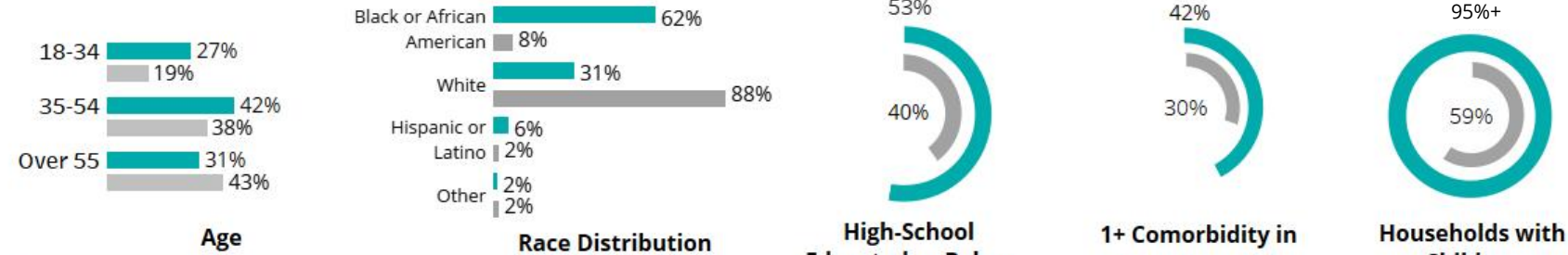
Jackson, MO  
29095013203

Rural (non-core)    Medium (metro)    Urban (Large central metro)

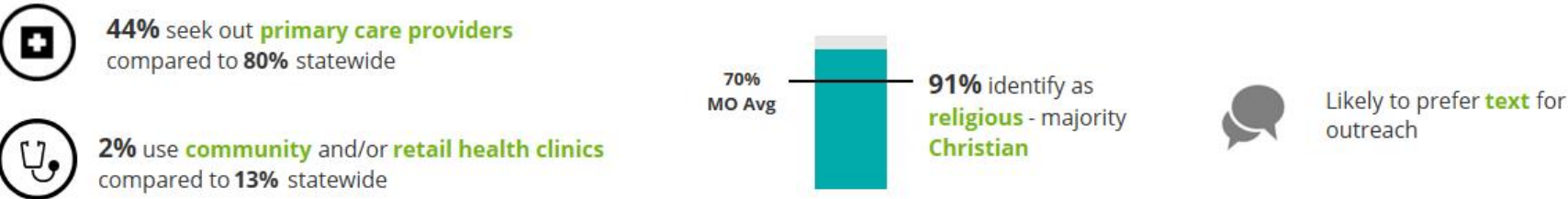
COVID-19 METRICS



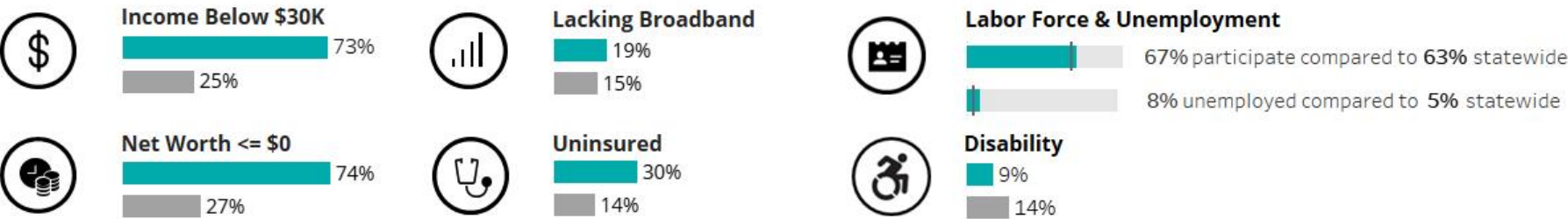
This tract at a glance:



VALUES & PREFERENCES



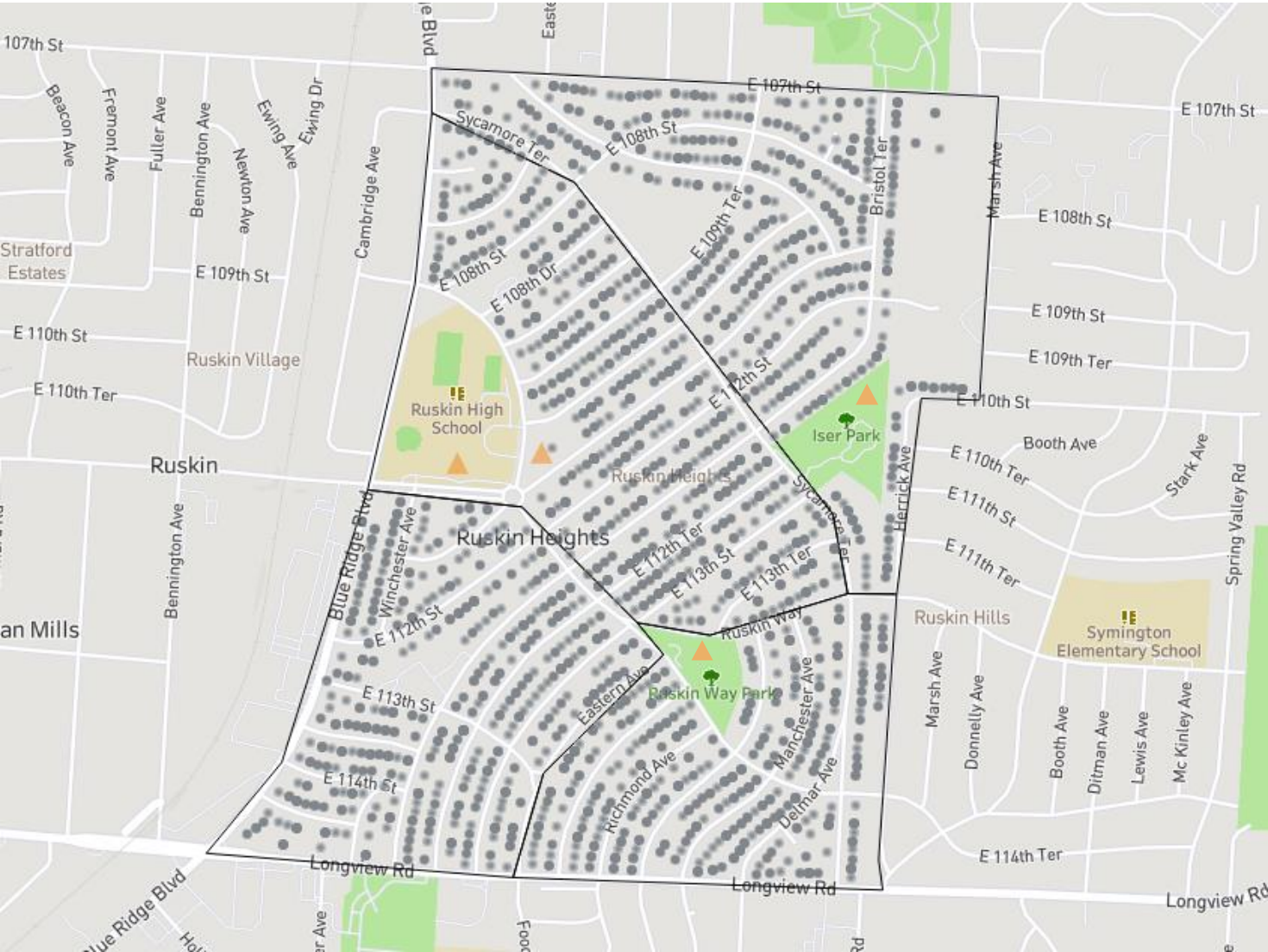
ACCESS FACTORS



Key    Census Tract    State Average




Census Tract: 29095013203




POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Ruskin Heights Presbyterian Church	Worship	11000 Ruskin Way
Ruskin High School	Schools	7000 E 111th Street
Iser Park	Community	E. 112th Terrace & Sycamore Ave
Ruskin Way Park	Community	E. 114th St. & Ruskin Way

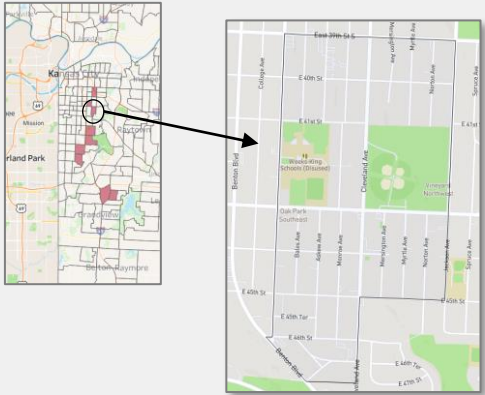
**Legend**



**Point of Interest (POI)**



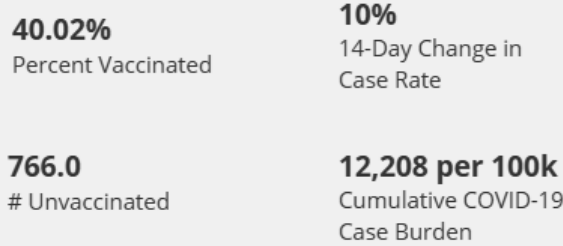
**Vulnerable Population**  
(Low to high density)  
*<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority*



Jackson, MO  
29095006000

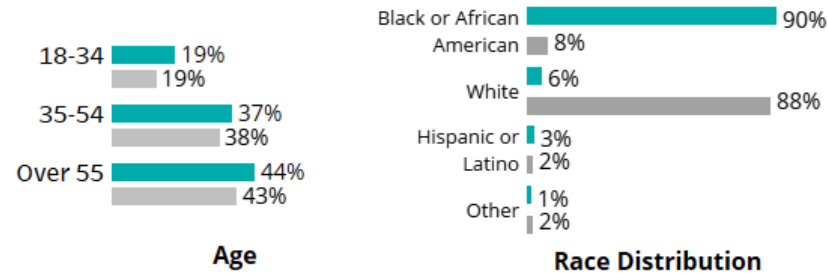
Rural (non-core)      Medium (metro)      Urban (Large central metro)

COVID-19 METRICS

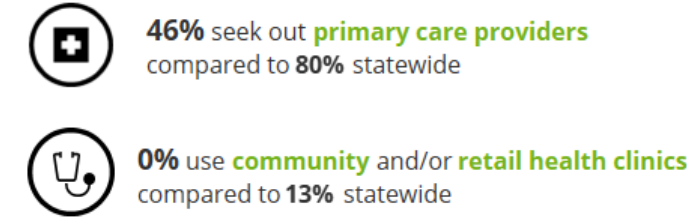


Key      Census Tract      State Average

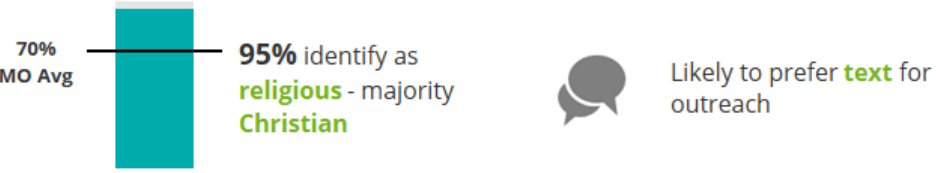
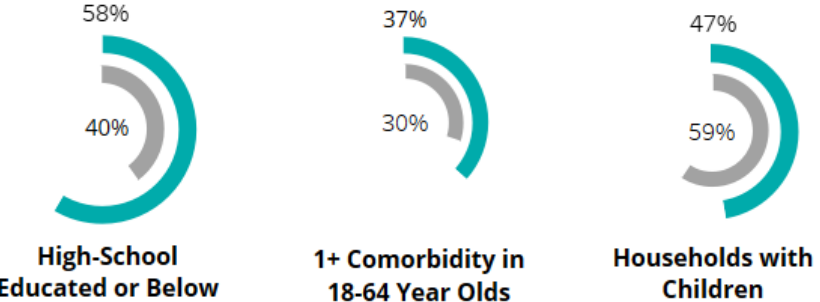
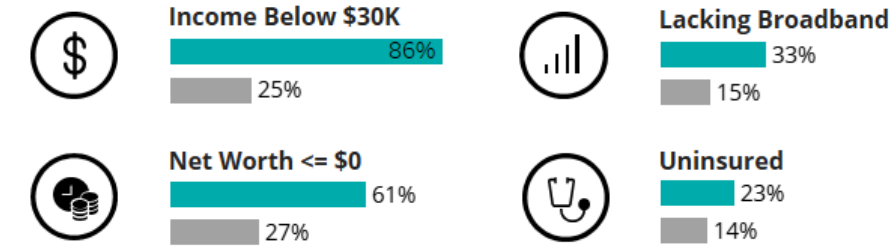
This tract at a glance:



VALUES & PREFERENCES

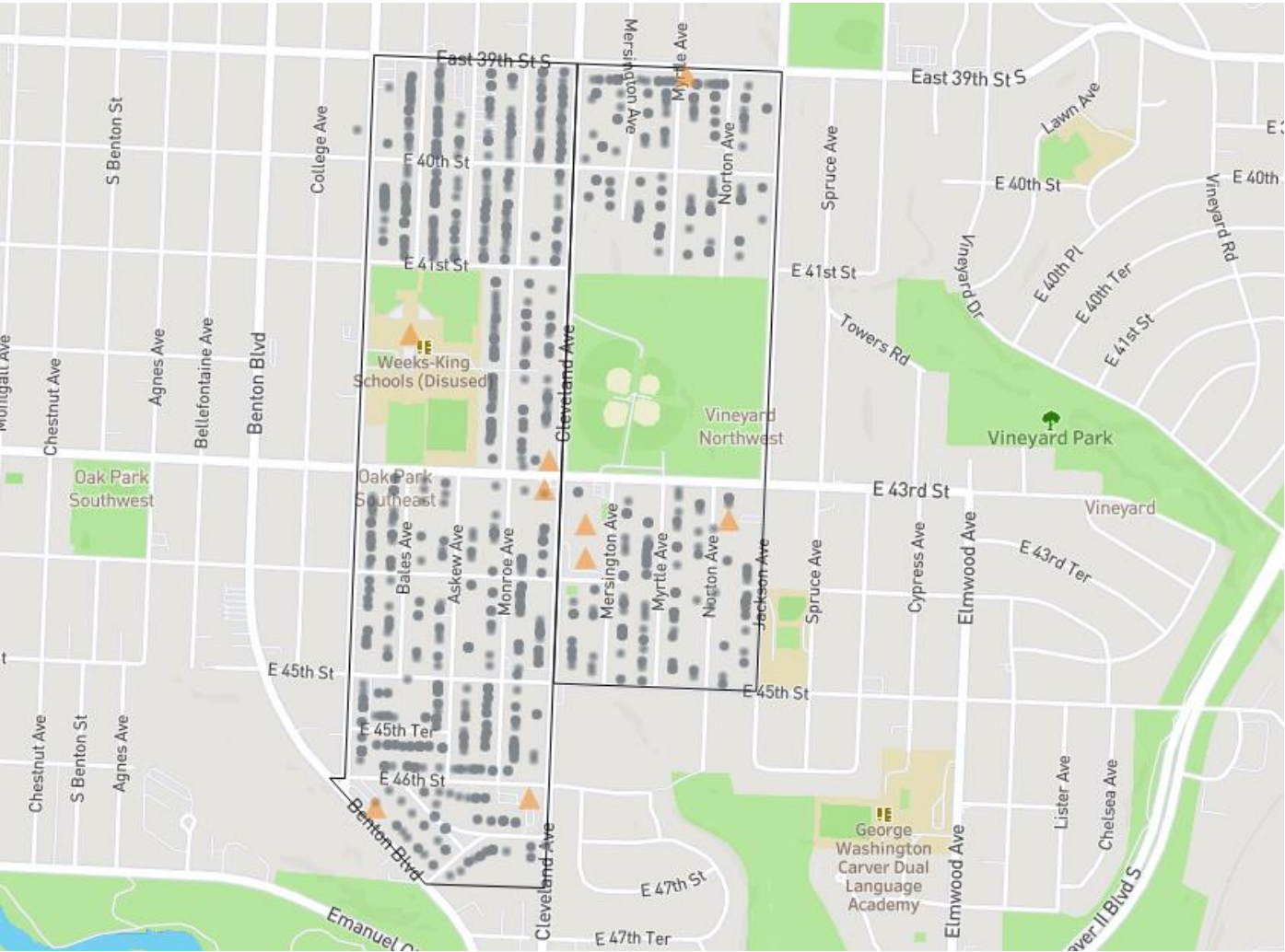


ACCESS FACTORS







Census Tract: 29095006000

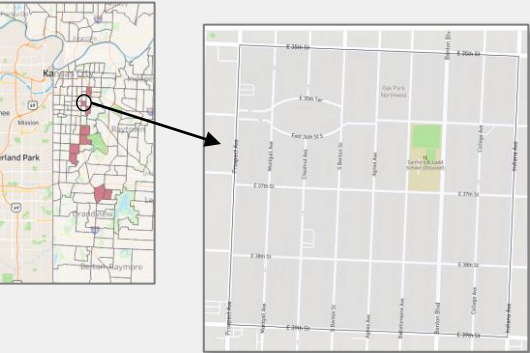


POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Blue Valley Market	Grocery	4300 Cleveland Ave
Power of Faith AME Church	Worship	4242 Cleveland Ave
St. Andrew United Methodist Church	Worship	4601 Benton Blvd
Greater Mount Zion Baptist Church	Worship	4600 Cleveland Ave
Community Mission Baptist Church	Worship	4309 Norton Ave
M. L. King Elementary	Schools	4848 Woodland Avenue
Genesis School Inc.	Schools	3800 E 44th St.
Neighborhood Barber Shop	Barber/salon	4001 E 39th St
Boys & Girls Clubs of America	Neighborhood/ community	3831 E 43rd St

Legend

 Point of Interest (POI)

 Vulnerable Population  
(Low to high density)  
*<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority*



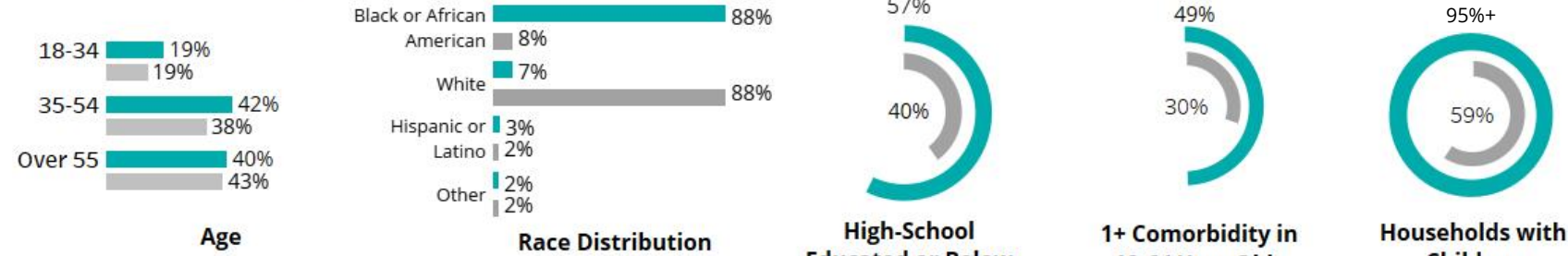
Jackson, MO  
29095005602

Rural (non-core)      Medium (metro)      Urban (Large central metro)

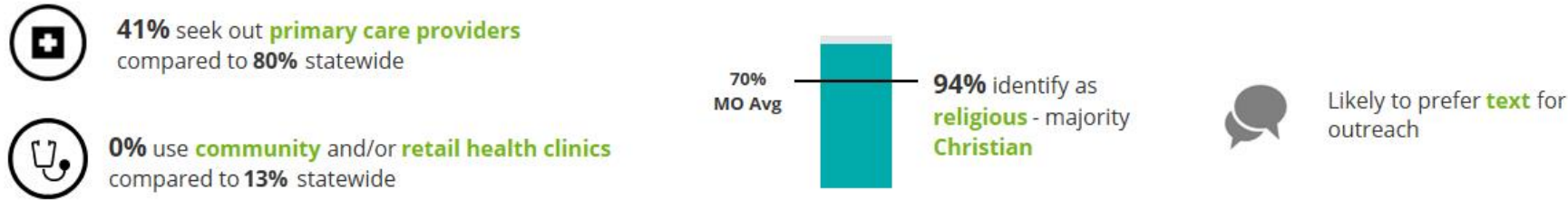
COVID-19 METRICS



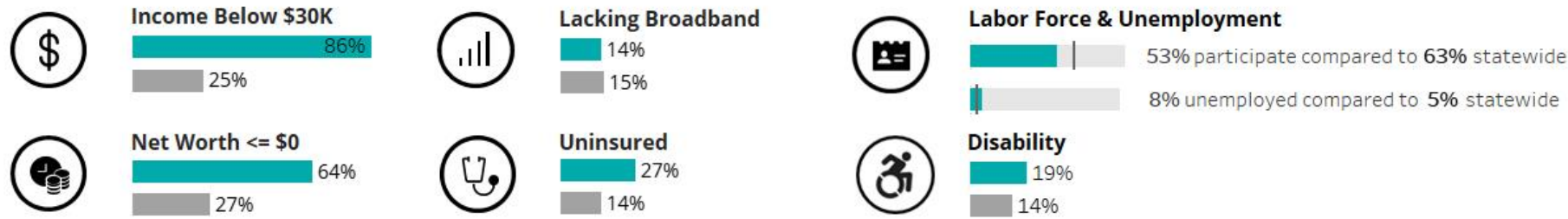
This tract at a glance:



VALUES & PREFERENCES



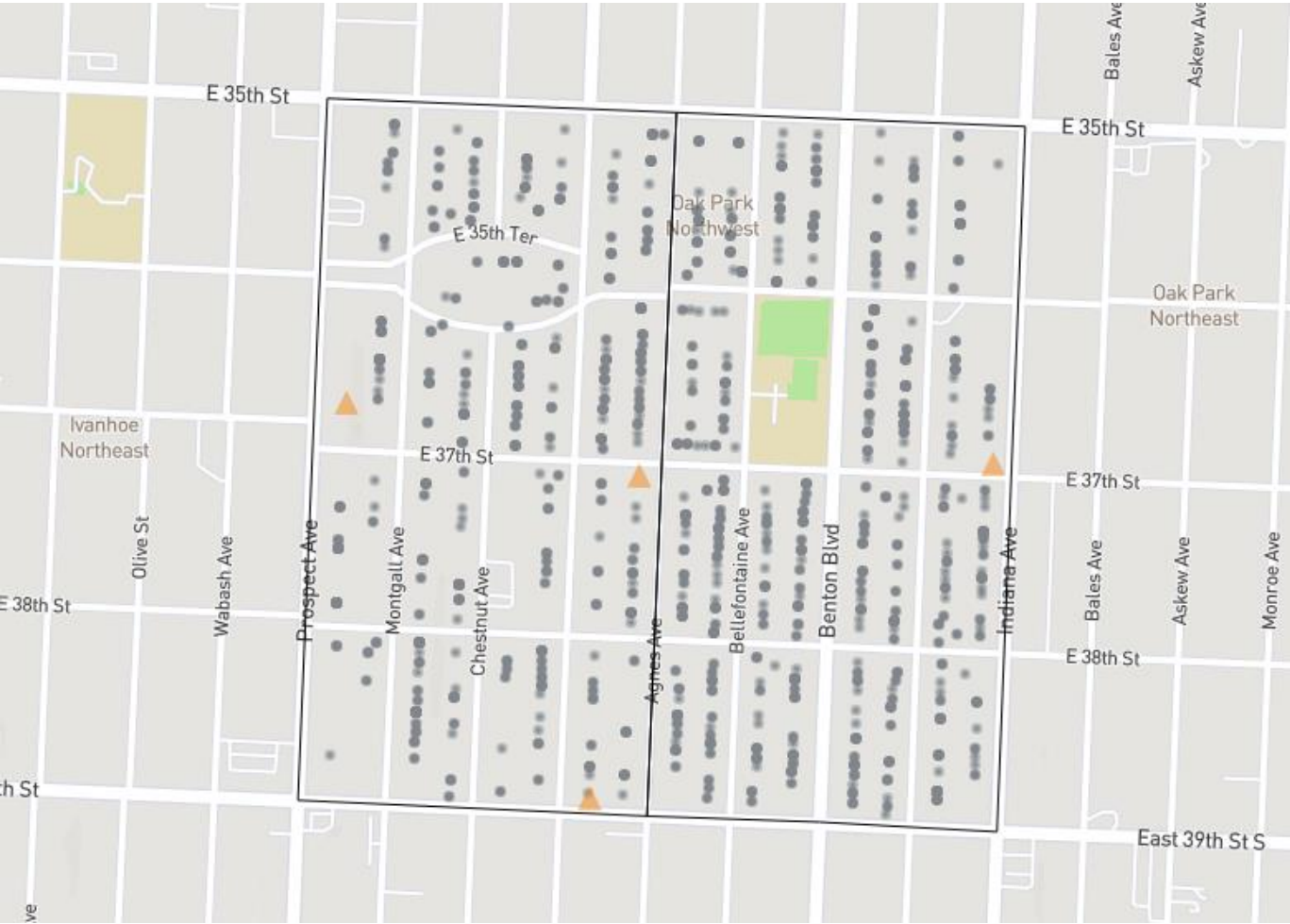
ACCESS FACTORS



Key      Census Tract      State Average





Census Tract: 29095005602

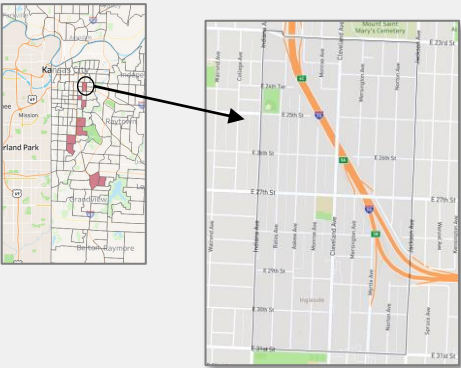


POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Indiana Market & Deli	Grocery	3646 Indiana Ave
Cornerstone Missionary Baptist Church	Worship	2911 E 37th St
Kajun Fried Chicken & Fish	Restaurant	3631 Prospect Ave
Dayzy African Hair braiding	Barber/salon	2908 E 39th St

**Legend**

**Point of Interest (POI)**

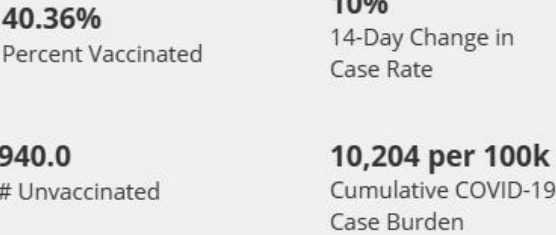
**Vulnerable Population**  
(Low to high density)  
*<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority*



Jackson, MO  
29095016500

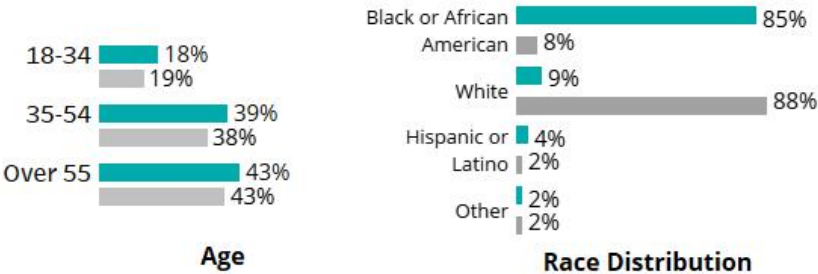
Rural (non-core)      Medium (metro)      Urban (Large central metro)

COVID-19 METRICS



Key      Census Tract      State Average

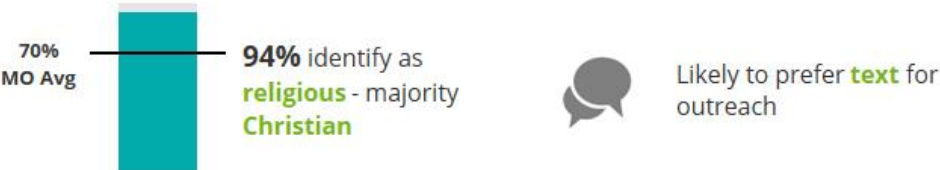
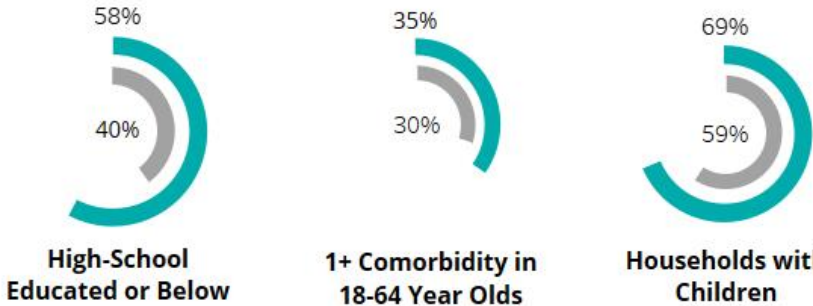
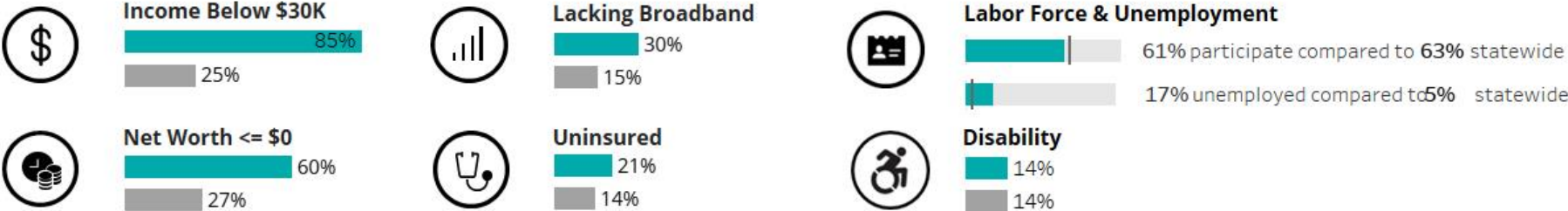
This tract at a glance:



VALUES & PREFERENCES

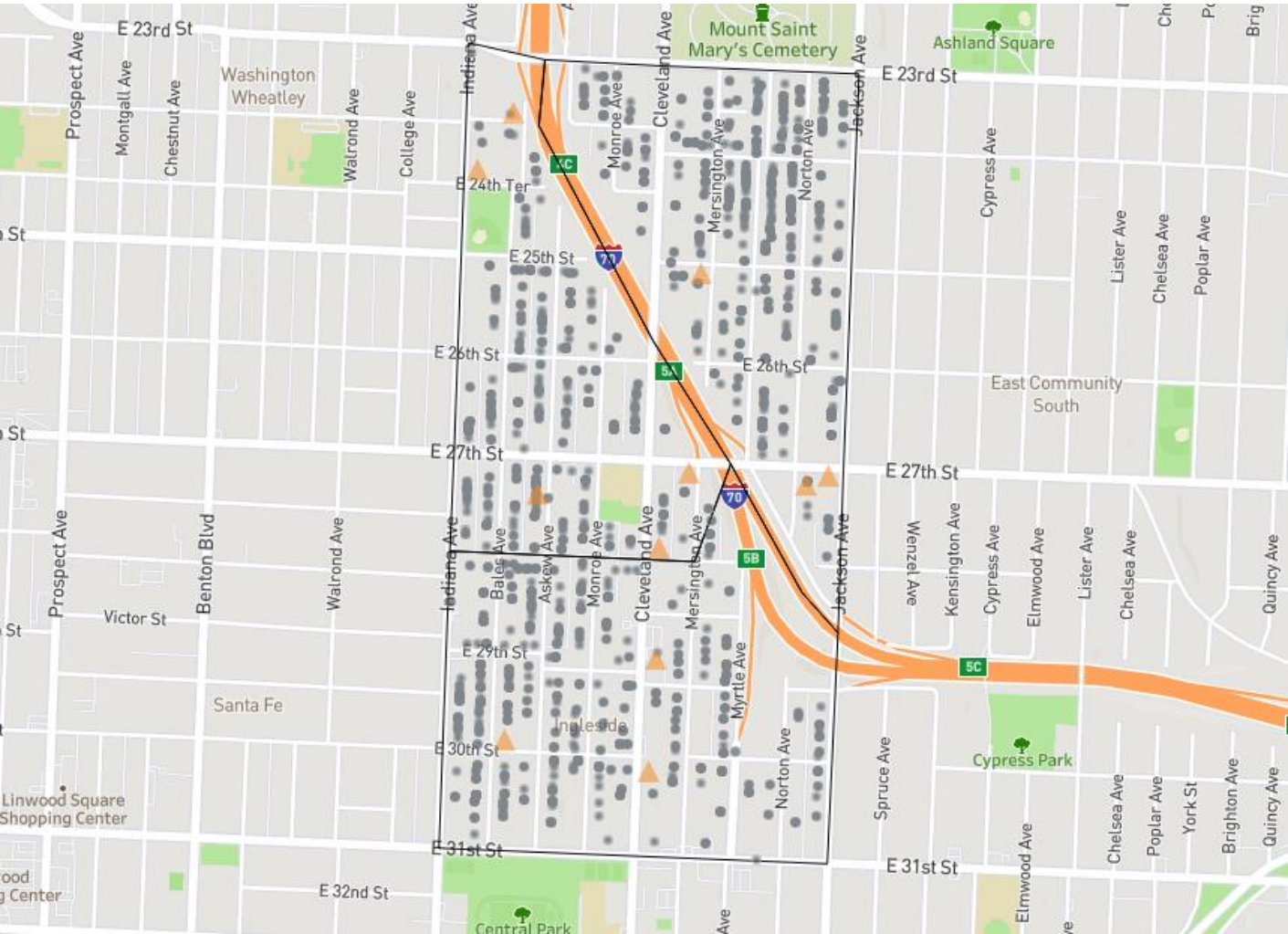


ACCESS FACTORS







Census Tract: 29095016500



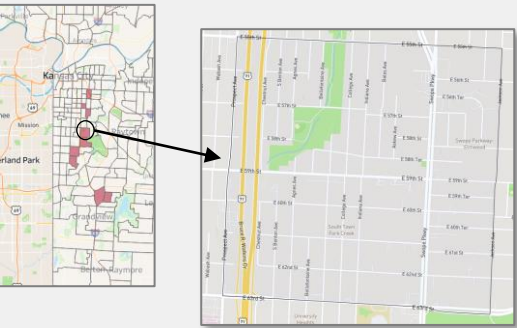
POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Shiloh Missionary Baptist Church	Worship	3001 Cleveland Ave
Church of God In Christ	Worship	2340 Bales Ave
Gethsemane Non-Denominational Church	Worship	4123 E 27th St
New Hebron Missionary Baptist Church	Worship	2702 Mersington Ave
Progressive Baptist Church	Worship	2937 Bales Ave
Cleveland Ave Baptist Church	Worship	2853 Cleveland Ave
Holy Light Missionary Baptist Church	Worship	2421 Indiana Ave
Mount Carmel Missionary Baptist Church	Worship	2747 Cleveland Ave
Victory Outreach	Worship	2720 Askew Ave
Wright Temple	Worship	2500 Mersington Ave
Carol's Hair Salon	Barber/salon	2709 Norton Ave

Legend

 **Point of Interest (POI)**

 **Vulnerable Population**  
(Low to high density)

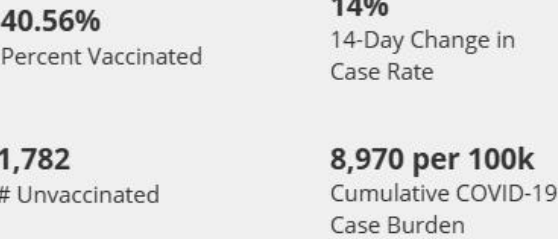
*<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority*



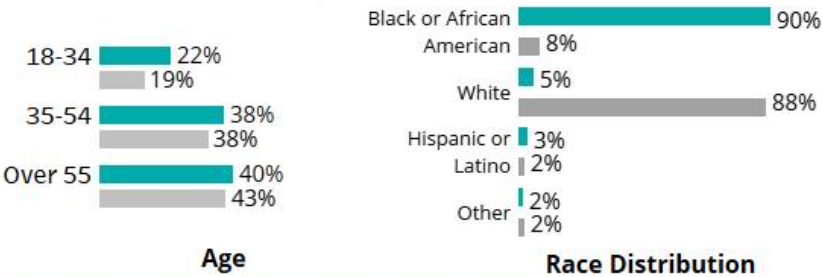
Jackson, MO  
29095007900

Rural (non-core)      Medium (metro)      Urban (Large central metro)

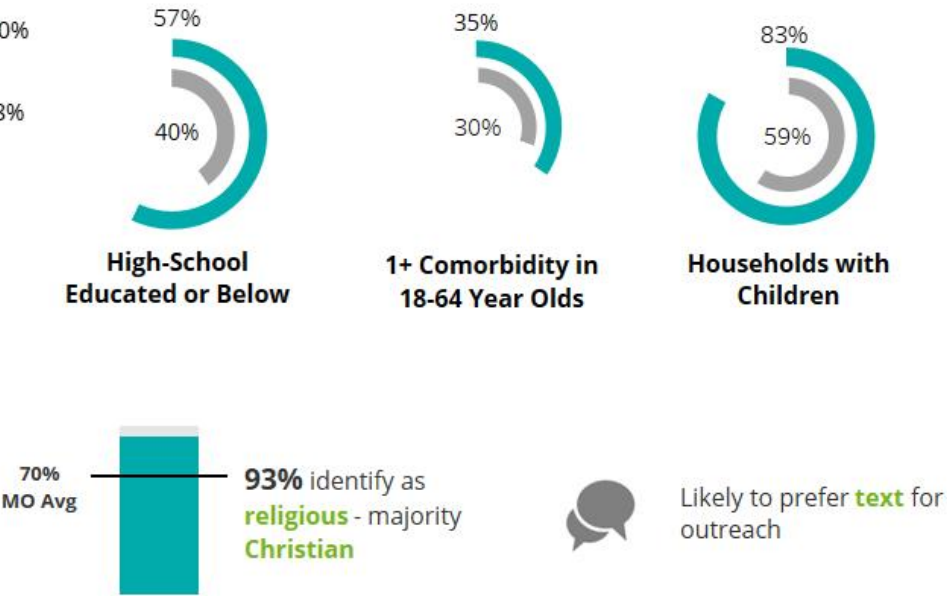
COVID-19 METRICS



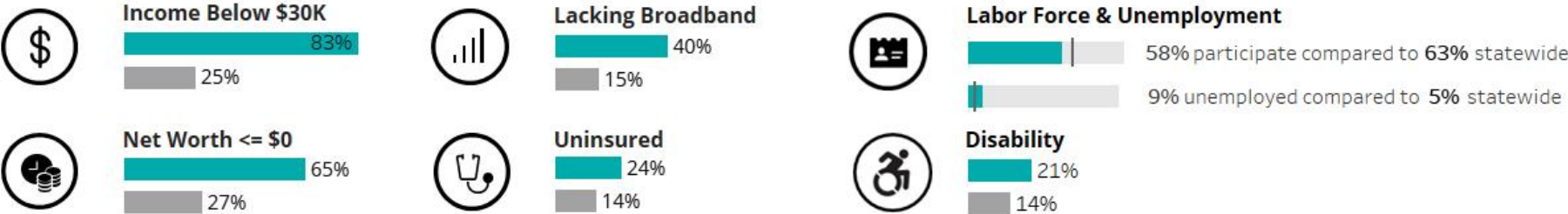
This tract at a glance:



VALUES & PREFERENCES



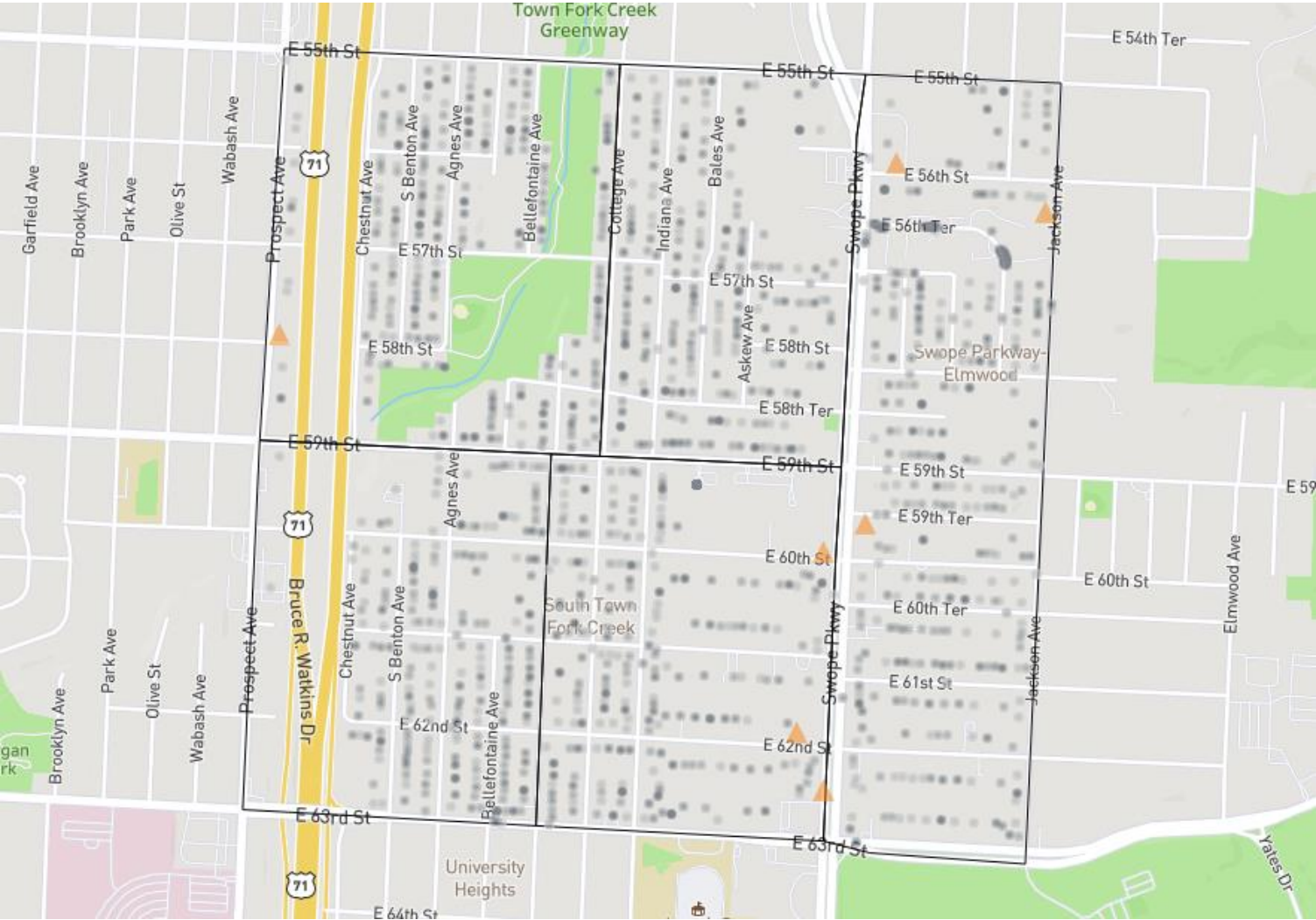
ACCESS FACTORS



Key      Census Tract      State Average





Census Tract: 29095007900



POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
St. Louis Church	Worship	5930 Swope Pkwy
Faith Fellowship Baptist Church	Worship	5610 Jackson Ave
Parkway Baptist Church	Worship	3810 E 56th St
Swope Parkway United Christian Church	Worship	3482 E 62nd St
Greater Faith Missionary Baptist Church	Worship	5743 Prospect Ave
Covenant Presbyterian Church	Worship	5931 Swope Pkwy
Kansas City Public Library	Library	6242 Swope Pkwy

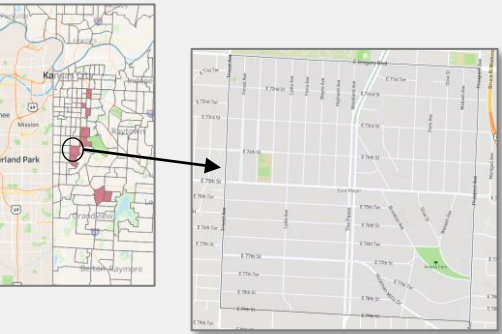
Legend

 Point of Interest (POI)

 Vulnerable Population  
(Low to high density)

<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority

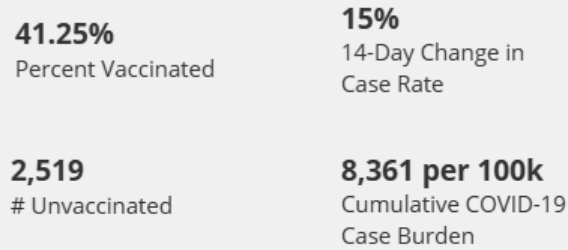




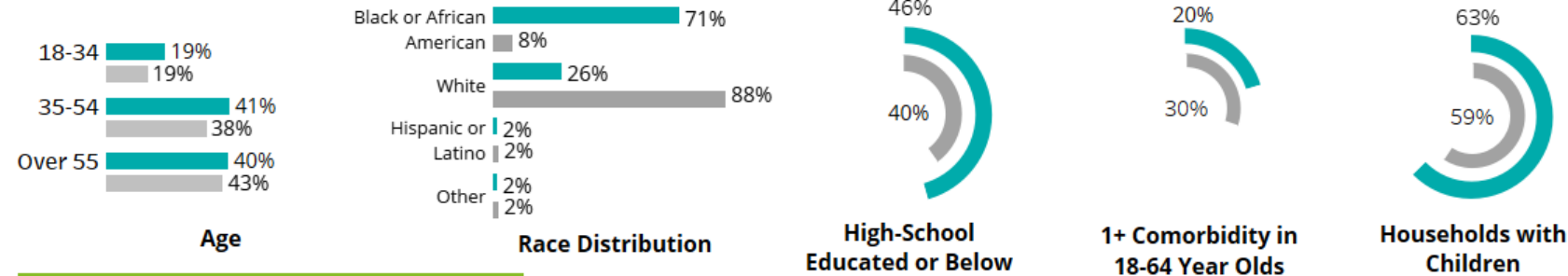
Jackson, MO  
29095009000

Rural (non-core)      Medium (metro)      Urban (Large central metro)

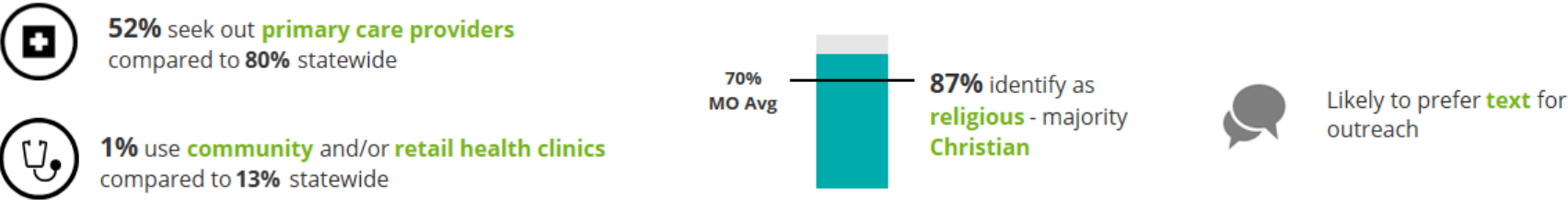
COVID-19 METRICS



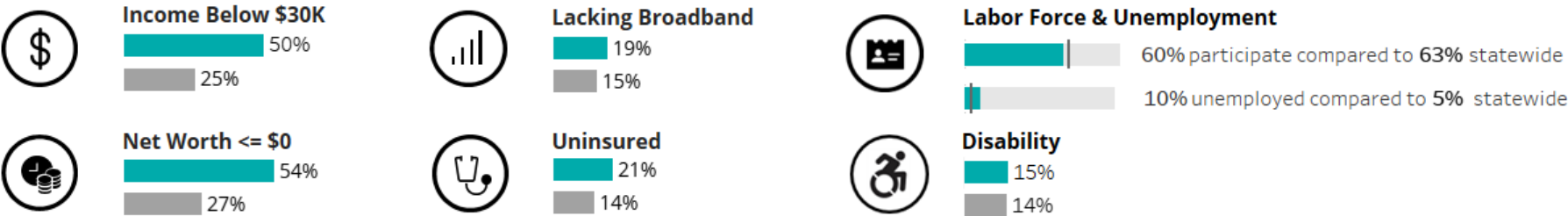
This tract at a glance:



VALUES & PREFERENCES

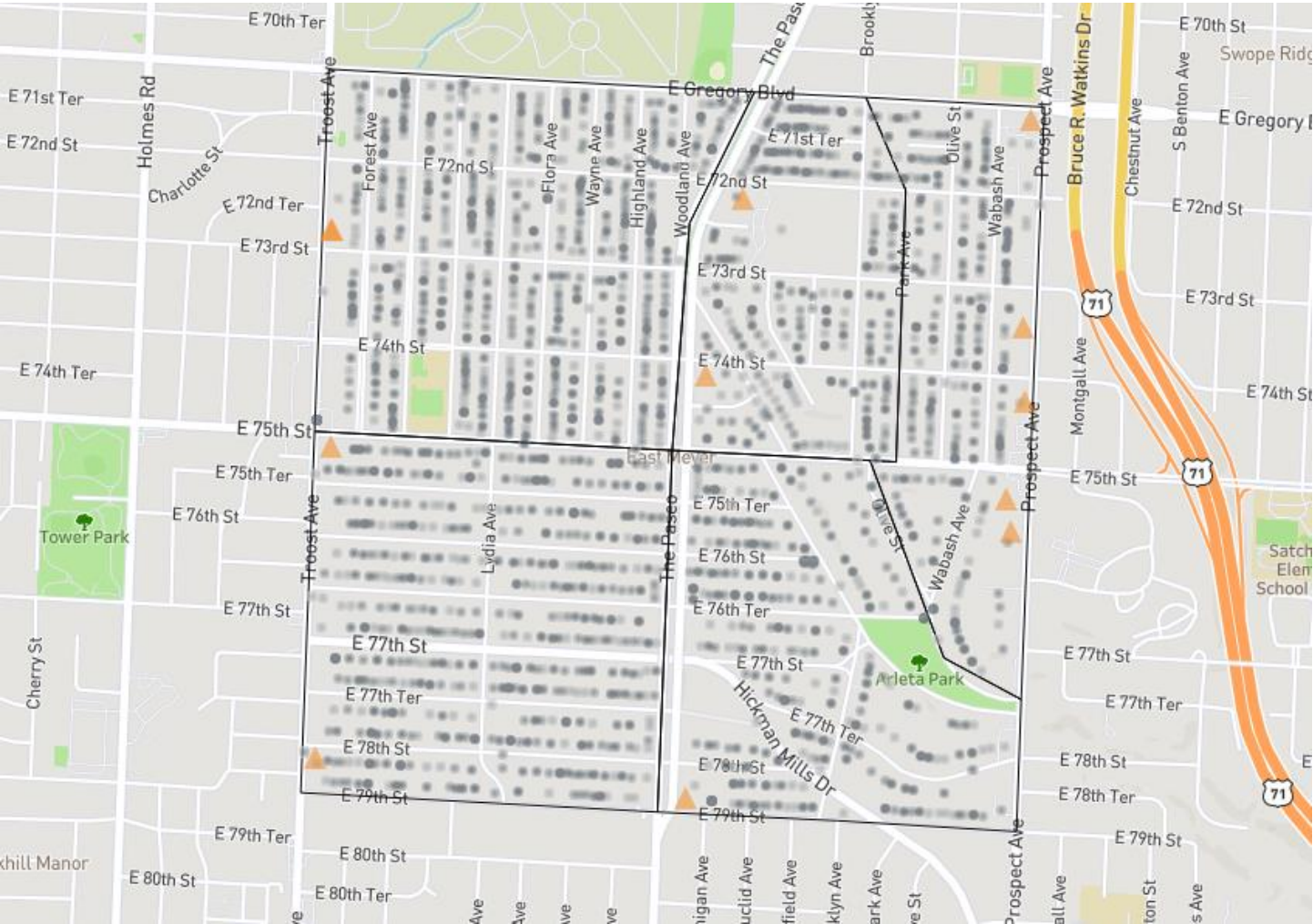


ACCESS FACTORS




Key      Census Tract      State Average




Census Tract: 29095009000



POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Thriftway Grocery	Grocery	7320 Prospect Ave
Muzammil	Grocery	7501 Troost Ave
Holy Martyrs Church	Worship	7801 Paseo Blvd
Fellowship Baptist Church	Worship	7106 Prospect Ave
Love Unlimited Church	Worship	7410 Prospect Ave
Grace Baptist Church	Worship	7203 Paseo Blvd
Christian Tabernacle Church of God In Christ	Worship	7405 Paseo Blvd
Leenaj Barber Designs	Barber/salon	7520 Prospect Ave
Curtis A's Barber Shop	Barber/salon	7237 Troost Ave
Good Nail	Barber/salon	7801 Troost Ave
Blade's Barber Shop	Barber/salon	7237 Troost Ave
Kansas City Missouri Fire Department Station 30	Police/fire	7534 Prospect Ave

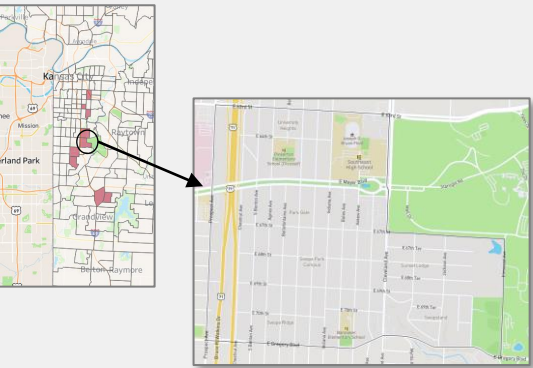
Legend

 Point of Interest (POI)



Vulnerable Population  
(Low to high density)

<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority



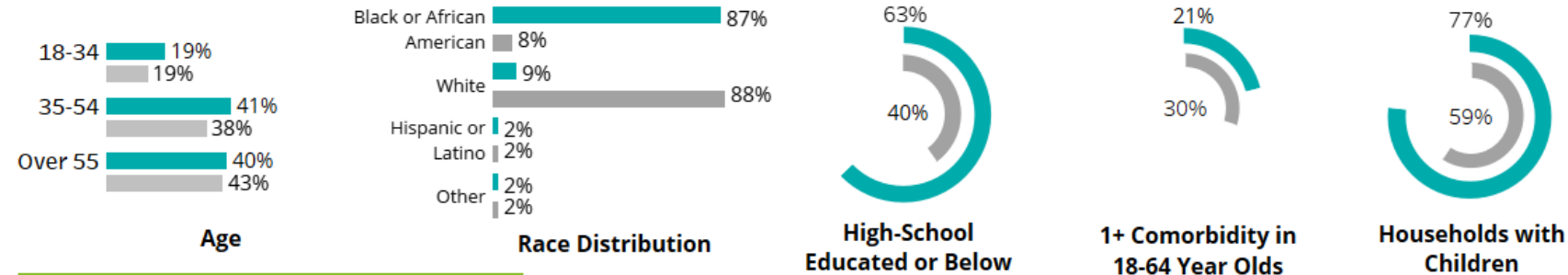
Jackson, MO  
29095008800

Rural (non-core)    Medium (metro)    Urban (Large central metro)

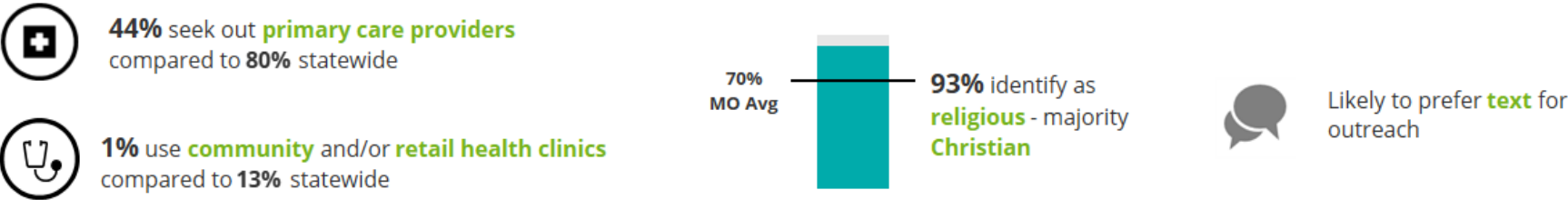
COVID-19 METRICS



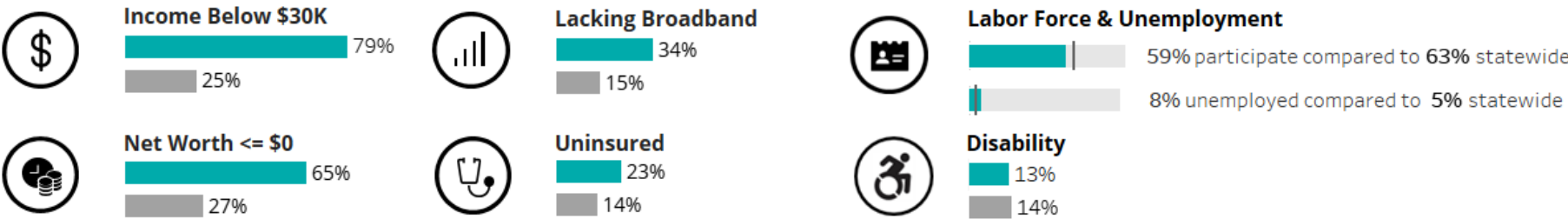
This tract at a glance:



VALUES & PREFERENCES



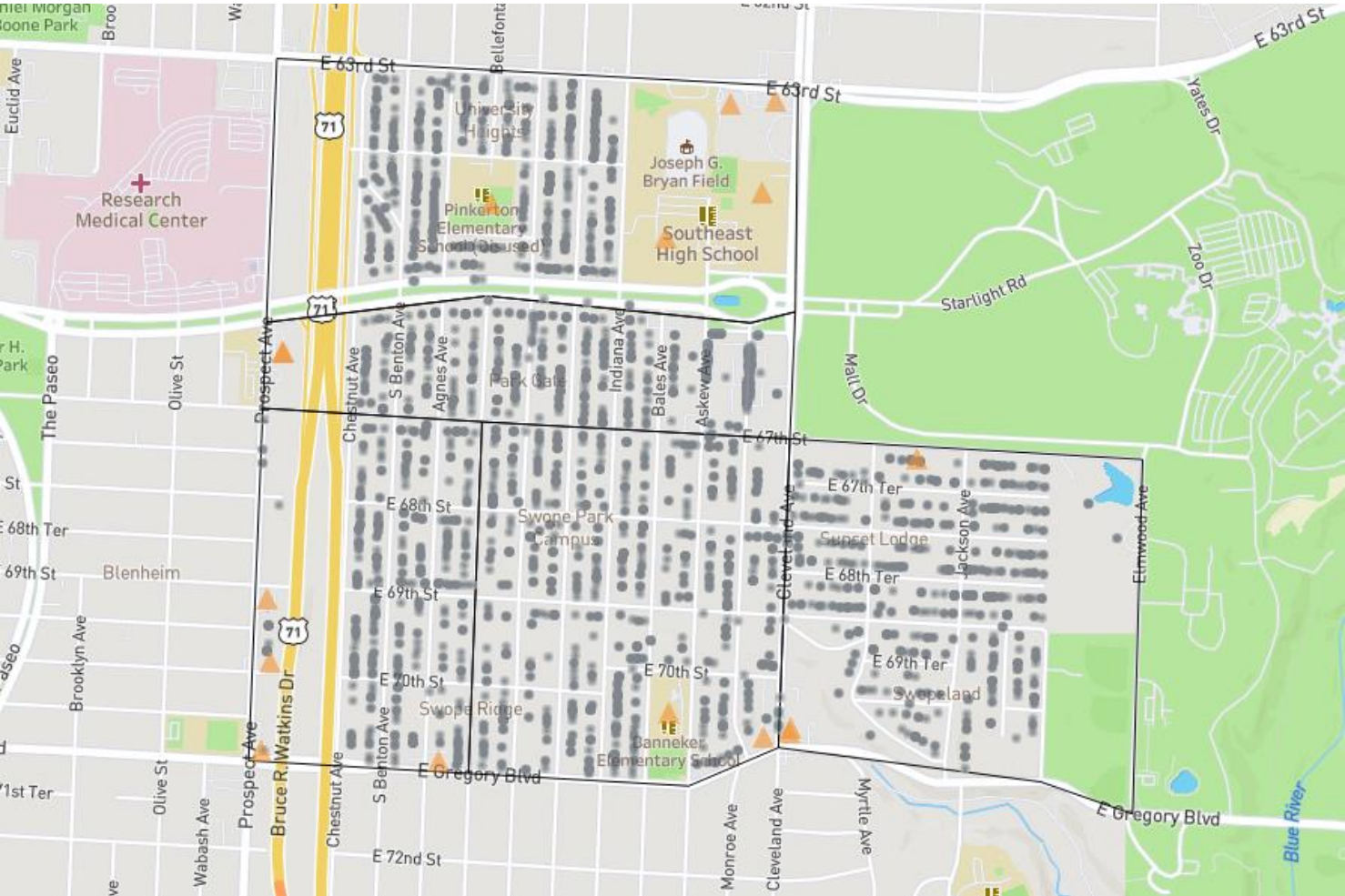
ACCESS FACTORS



Key    Census Tract    State Average





Census Tract: 29095008800

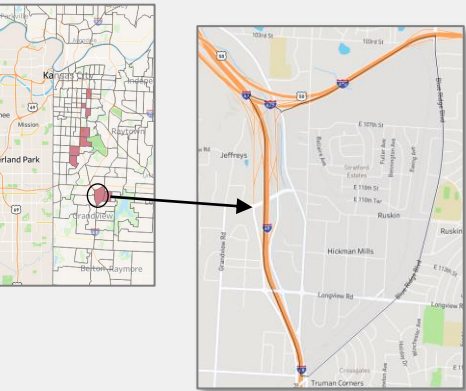


POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Ill B's Market & Party Shop	Grocery	3800 E Gregory Blvd
Food Express	Grocery	3740 E Gregory Blvd
Hosanna Missionary Baptist Church	Worship	4027 E 67th St
Temple of Faith Baptist Church	Worship	3000 E Gregory Blvd
Swope Park United Methodist Church	Worship	6300 Swope Pkwy
Al Haqq Islamic Center	Worship	6941 Prospect Ave
Jim's Diner	Restaurant	6901 Prospect Ave
KFC	Restaurant	6607 Prospect Ave
Krispy Krunchy Chicken	Restaurant	3800 E Gregory Blvd
Taco Bell	Restaurant	6607 Prospect Ave
Church's Chicken	Restaurant	2600 E Gregory Blvd
Hogan Preparatory Acad Middle	Schools	6409 Agnes
Southeast High School	Schools	3500 E Meyer Blvd
B. Banneker Elementary	Schools	7050 Askew

Legend

 Point of Interest (POI)

 Vulnerable Population  
(Low to high density)  
*<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority*



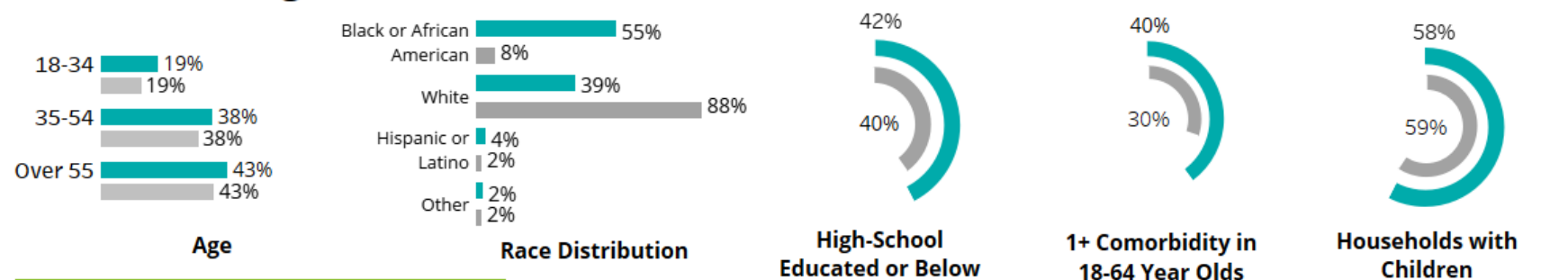
Jackson, MO  
29095013100

Rural (non-core)    Medium (metro)    Urban (Large central metro)

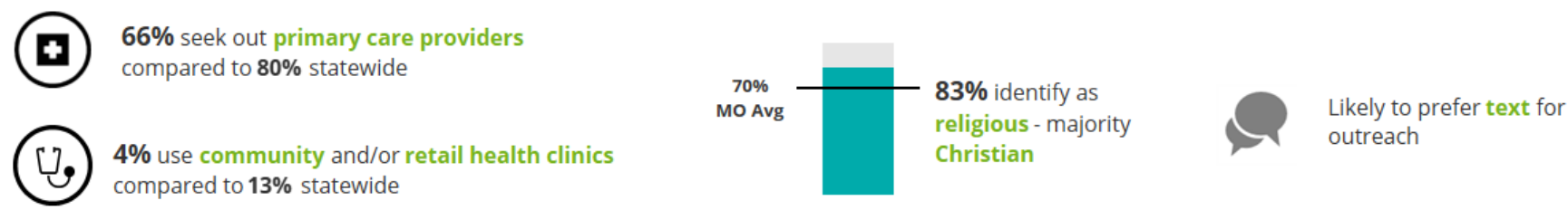
COVID-19 METRICS



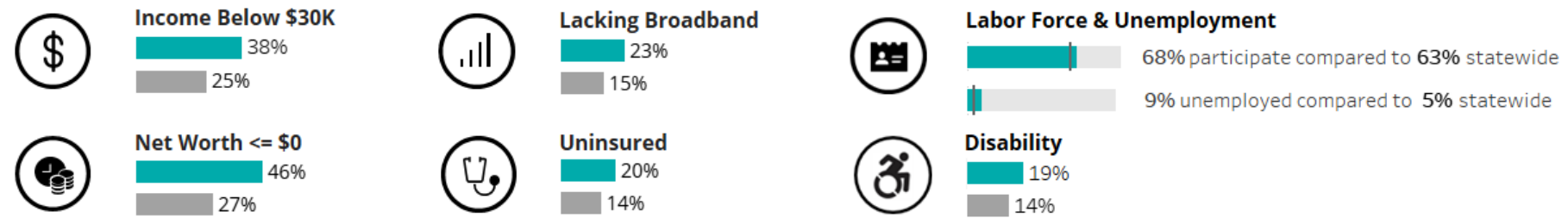
This tract at a glance:



VALUES & PREFERENCES



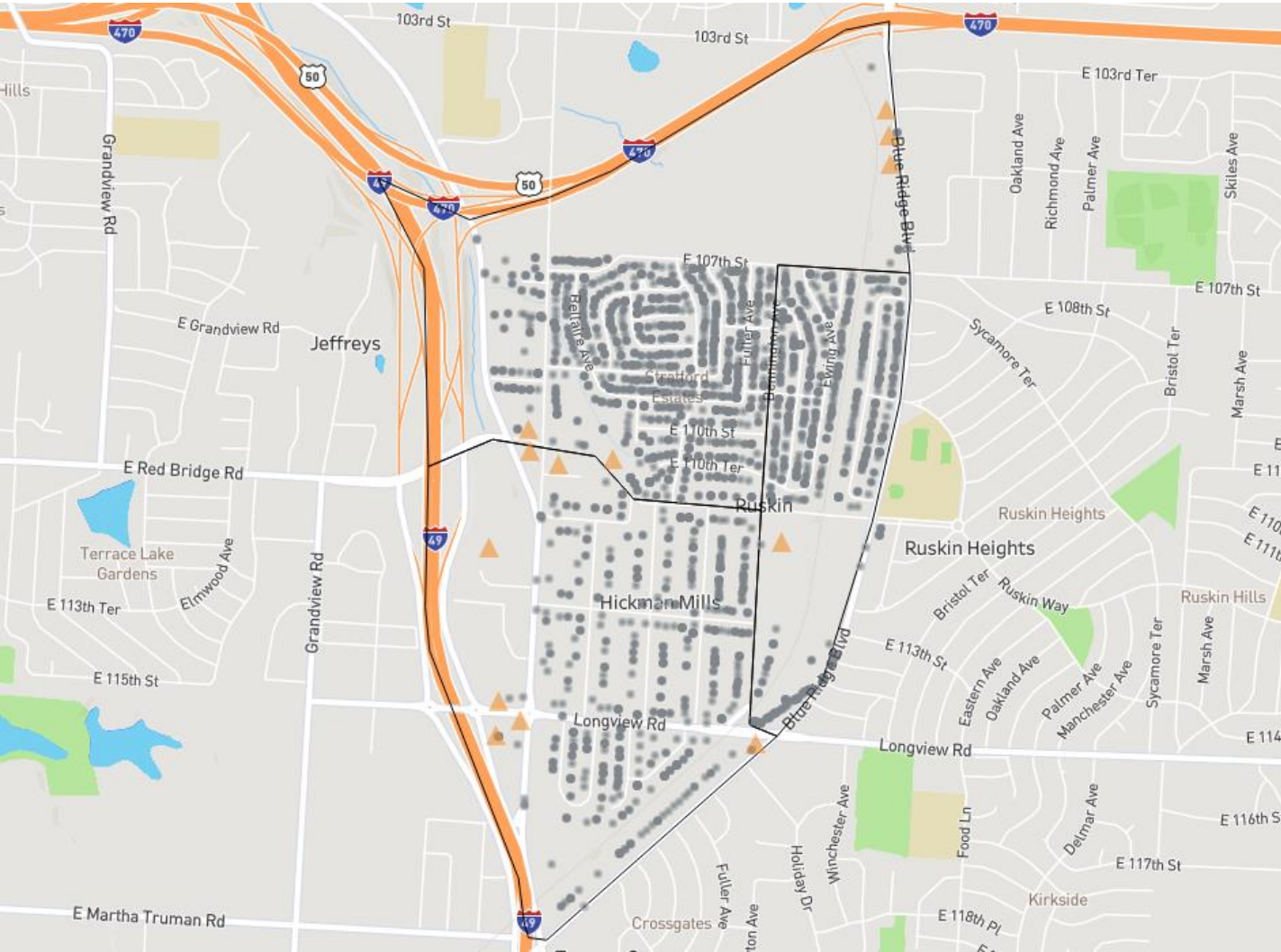
ACCESS FACTORS




Key    Census Tract    State Average






Census Tract: 29095013100

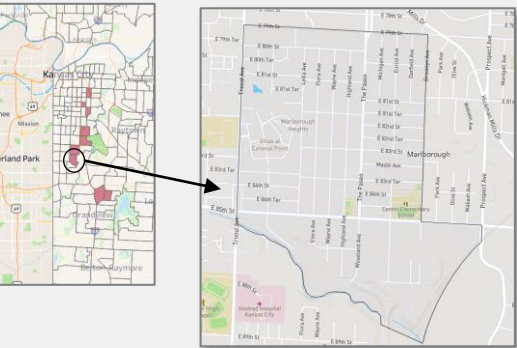


POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Fuel Trip	Grocery	10416 Blue Ridge Blvd
Hickman Mills Community Christian Church	Worship	5809 E Red Bridge Rd
United Believers Community Church	Worship	5600 E 112th Ter
Memorial Missionary Baptist Church	Worship	11424 Hickman Mills Dr
Southside Mafia Pizzeria	Restaurant	10328 Blue Ridge Blvd
Church's Chicken	Restaurant	11500 Blue Ridge Blvd
Paul's Drive In	Restaurant	10424 Blue Ridge Blvd
McDonald's	Restaurant	11001 Hickman Mills Dr
Fuji Japanese Steakhouse & Sushi Bar	Restaurant	5701 Longview Rd
Taco Bell	Restaurant	5704 E Red Bridge Rd
Burke Alternative Program	Schools	11115 Bennington Avenue
Barber Shop	Barber / salon	5715 Longview Rd
Kansas City Missouri Fire Department Station 42	Police / fire	6006 E Red Bridge Rd

**Point of Interest (POI)**

**Vulnerable Population**  
(Low to high density)  
*<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority*

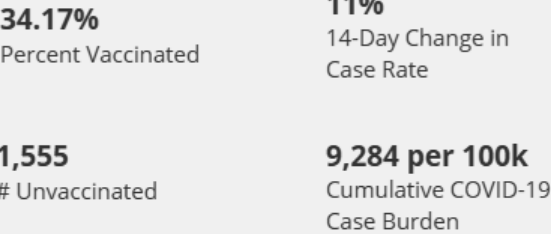




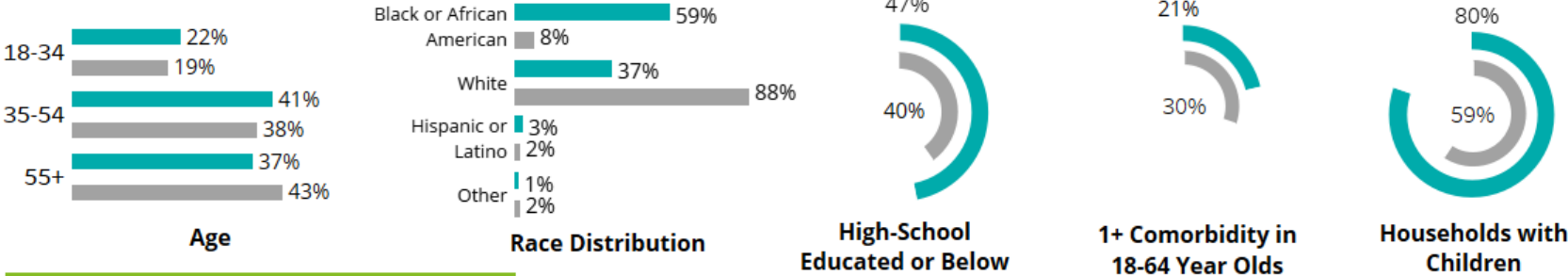
Jackson, MO  
29095009500

Rural (non-core)      Medium (metro)      Urban (Large central metro)

COVID-19 METRICS



This tract at a glance:

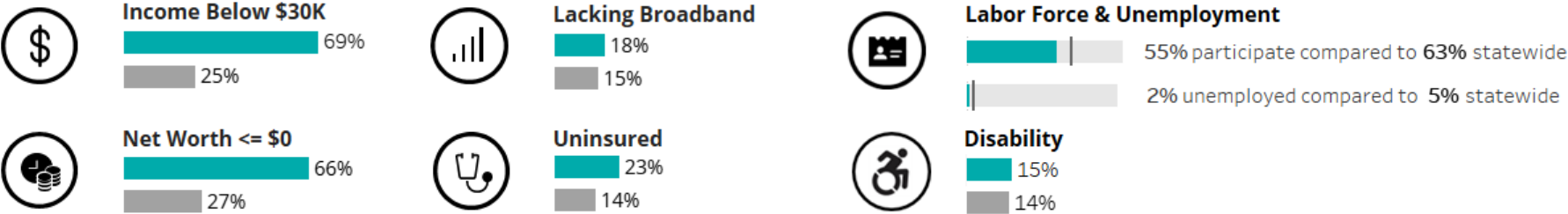


VALUES & PREFERENCES



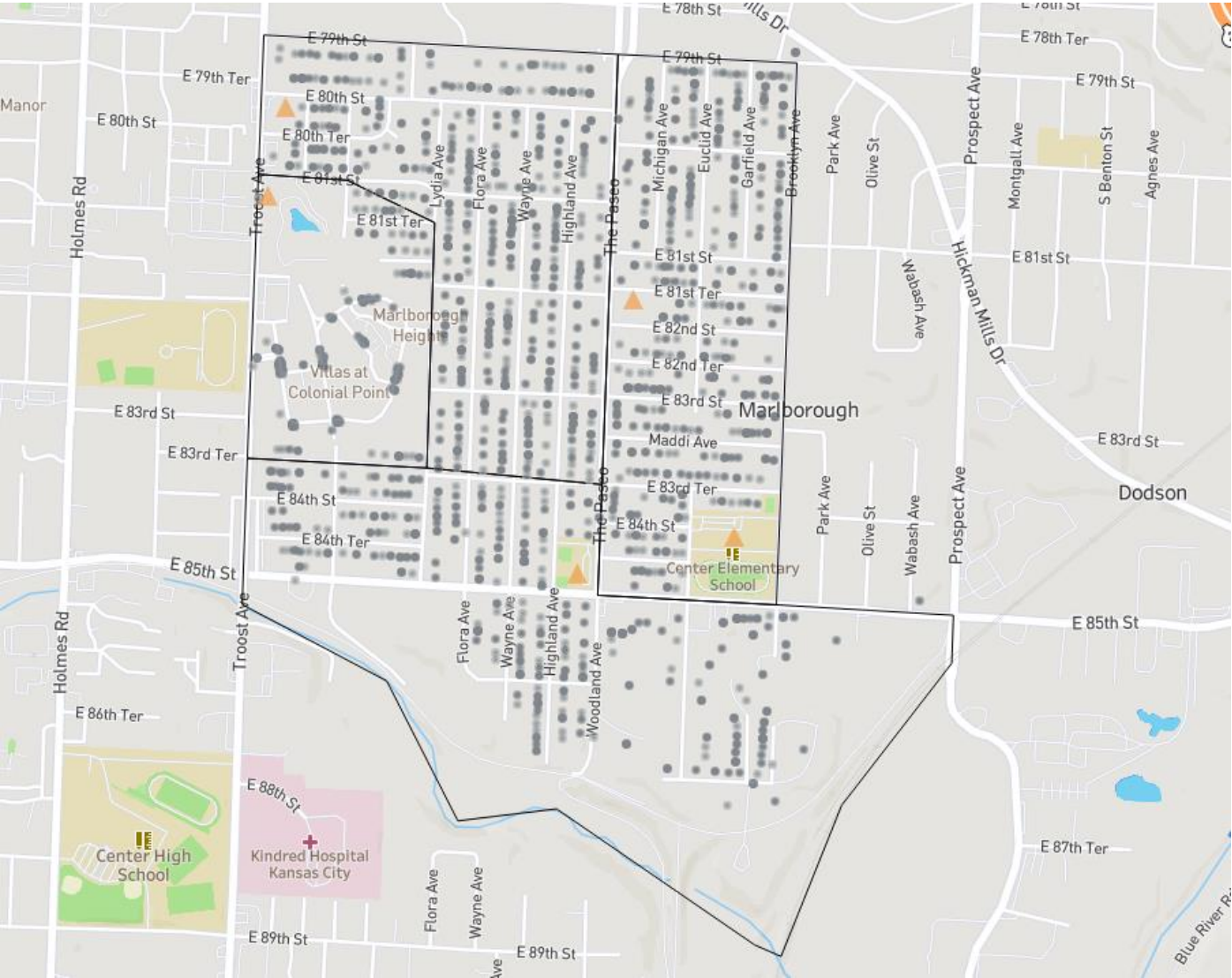
Likely to prefer text for outreach

ACCESS FACTORS




Key      Census Tract      State Average


Census Tract: 29095009500



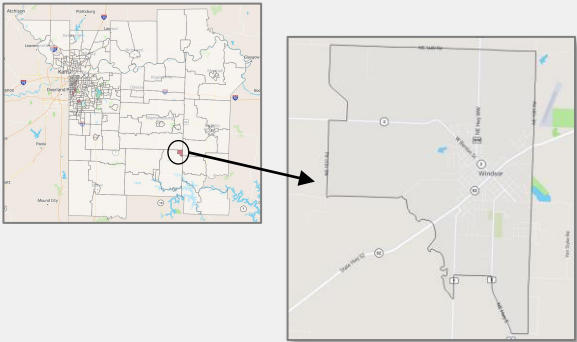
POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Troost Market	Grocery	8001 Troost Ave
New Zion Missionary Baptist Church	Worship	8129 Paseo Blvd
Center Elem.	Schools	8401 Euclid
Center Alternative	Schools	8434 Paseo
Cuttin'up Barber Shop	Barber/salon	8117 Troost Ave

Legend

 Point of Interest (POI)

 Vulnerable Population  
(Low to high density)

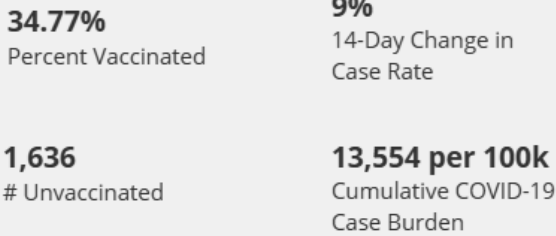
<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority



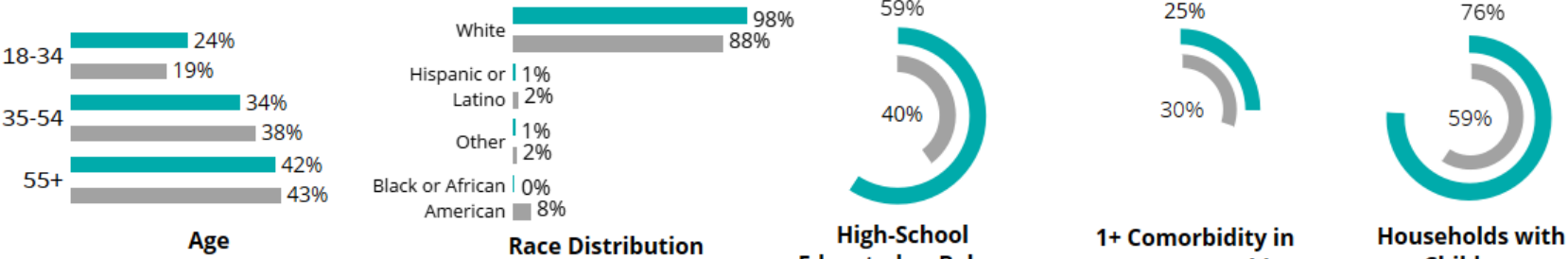
Henry, MO  
29083950100

Rural (non-core) Medium (metro) Urban (Large central metro)

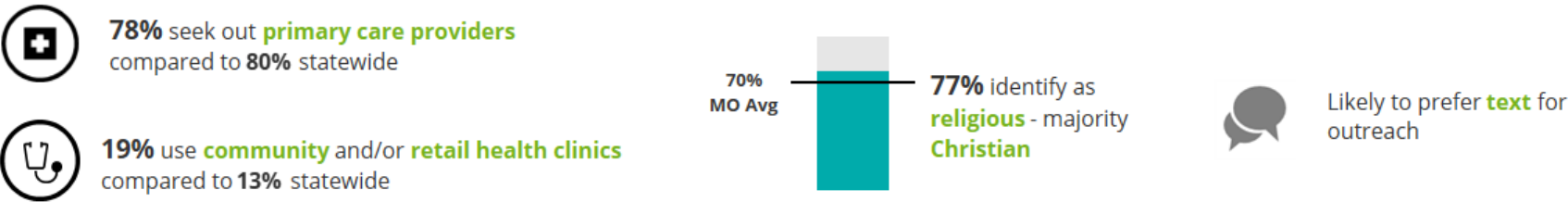
COVID-19 METRICS



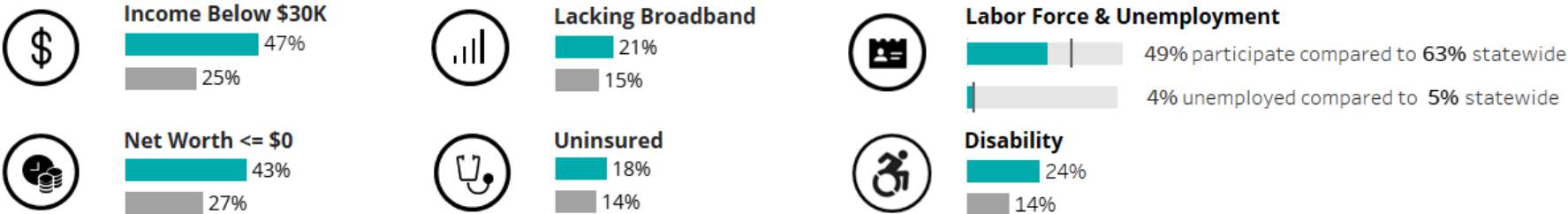
This tract at a glance:



VALUES & PREFERENCES



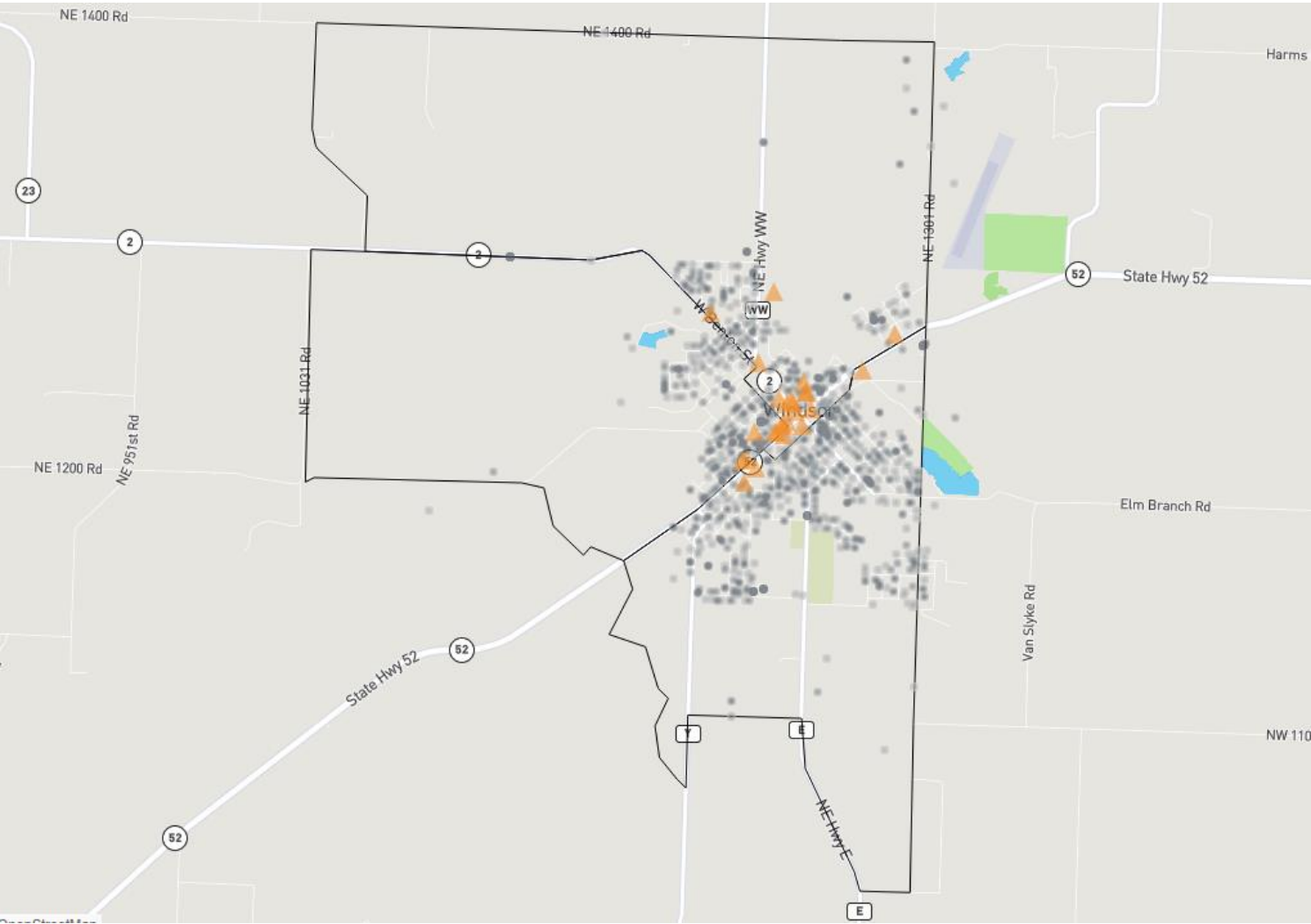
ACCESS FACTORS



Key Census Tract State Average



Census Tract: 29083950100



POINTS OF INTEREST		
Sites for Outreach & Vaccination Events		
Name	Type	Address
Windsor Phillips	Grocery	200 S Main St
Harold's Supermarket	Grocery	502 S Main St
First Baptist Church Windsor	Worship	308 S Tebo St
Grace Community Church	Worship	110 W Florence St
First Christian Church of Windsor	Worship	211 W Benton St
Calvary Baptist Church	Worship	508 N Main St
Windsor High	Schools	210 North St.
Windsor Elem.	Schools	501 S Main St.
Henry County Library	Library	105 W Benton St,
Hair and Beyond Salon and Tannery	Barber / salon	211 S Main St
Merryfield Pharmacy Inc	Pharmacy	200 W Benton St
Compass Health Pharmacy	Pharmacy	200 W Florence
Golden Valley Medical - Windsor	RHC	100 S Tebo

▲

Point of Interest (POI)

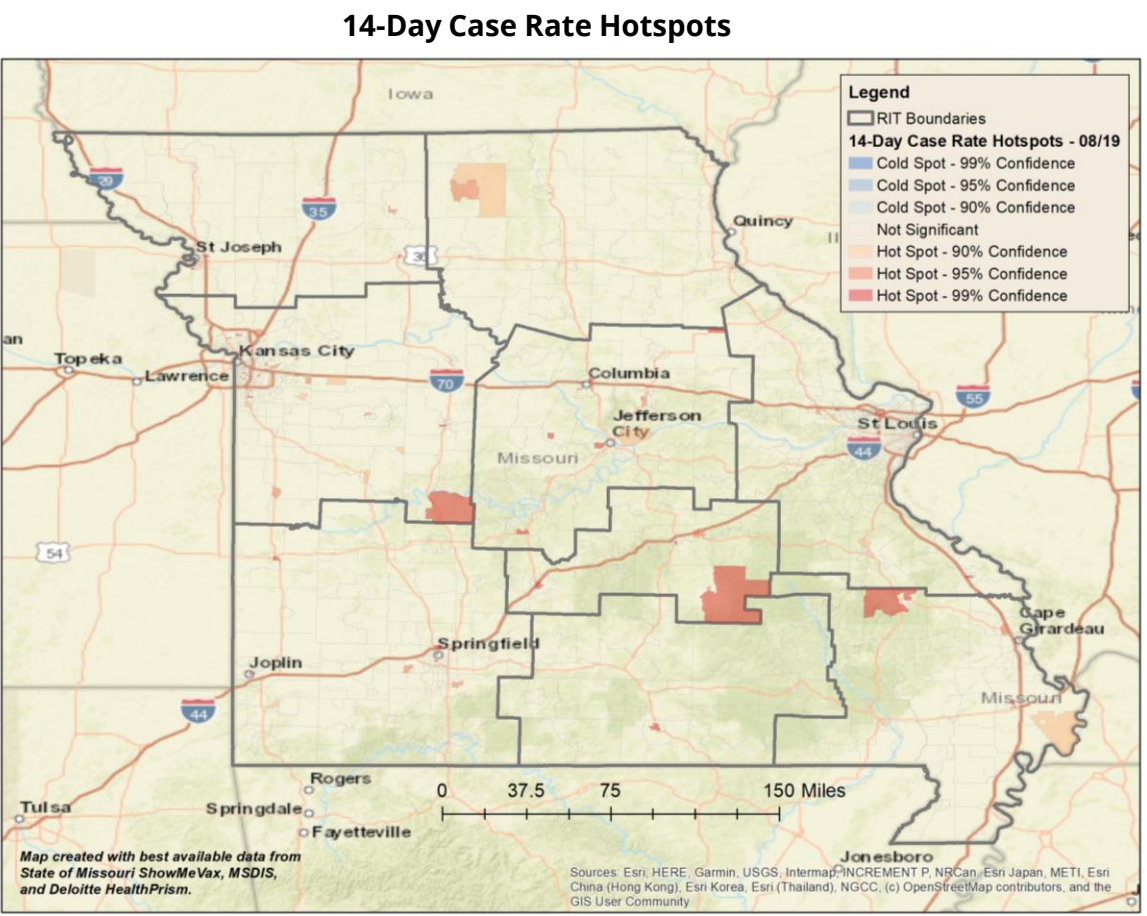
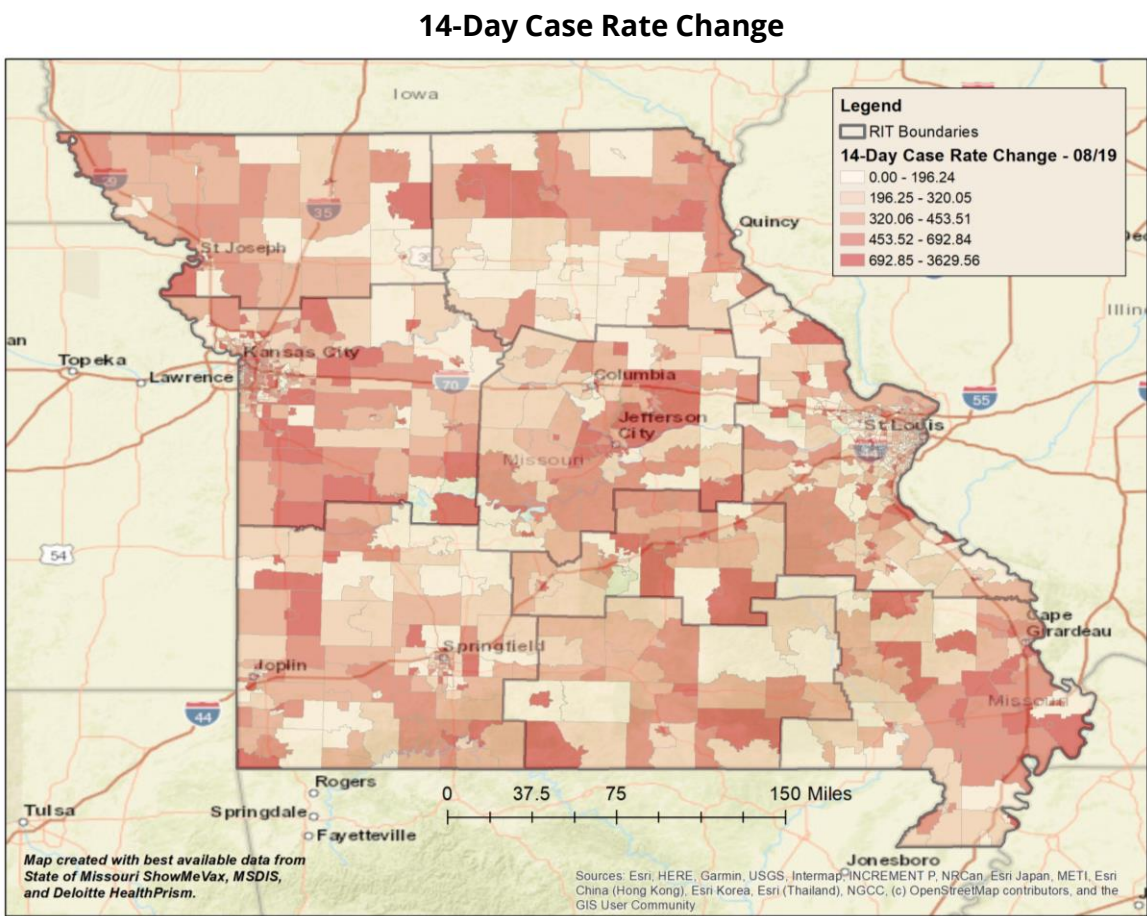
●●●

Vulnerable Population  
(Low to high density)

<\$30k income and/or 1+ comorbidities and/or racial/ethnic minority

# Appendix

For the time period between 8/06/21 and 8/19/21, the change in COVID-19 case rate (per 100,000) is displayed on the left and case rate hotspots (areas with statistically significant changes in case rates in comparison to surrounding areas) are displayed on the right



**Regions A, E and F have experienced the highest increase of COVID-19 case rates for the past 2 weeks**

**Case rate hotspots persisted in Kansas City (15 within I-435) and St Louis (2 inside I-270), slightly fewer than last week**

**Case rate hotspots persisted in several of the outdoor recreation gateways into the Lake of the Ozarks and Mark Twain National Forest regions**

**Note:** Data normalized by population (per 100,000 residents) per Census Tract. COVID-19 case rate data provided by the State of Missouri as of 8/20/21. Previous 2-week change view provided in the Appendix, along with methodology, data sources, and limitations.



# Statewide Top 10 Census Tracts by the COVID-19 Vulnerability Index

Below are the 10 Census Tracts with the highest COVID-19 Vulnerability Index scores – notably all in the St. Louis and Kansas City areas with low rates of vaccination, significant minority populations, and high rates of low-income households

Vulnerability Index Rank	Census Tract	County	18+ Population	Variables Included in the CVI					Additional Demographic Characteristics		
				Unvaccinated as of 8/27/21 (%)	Cumulative COVID-19 Case Burden as of 8/27/21 (# per 100k)	1+ Medical Comorbidities (%)	Minority Populations (%)	Living Below 138% FPL (%)	Households without Internet Access (%)	Crowded Households (%)	Individuals with Education Level Below High School (%)
Statewide Census Tract Average				44.64%	10,229	29.86%	20.43%	21.64%	17.42%	5.17%	9.98%
1	29510106200	St. Louis City	980	57.35%	9,632	38.98%	97.96%	70.32%	42.92%	11.68%	16.46%
2	29095013203	Jackson County	2,837	60.91%	13,748	42.30%	92.14%	55.73%	18.69%	10.85%	12.74%
3	29189212002	St. Louis County	2,196	52.73%	21,357	39.71%	94.85%	54.19%	19.13%	9.19%	12.27%
4	29095005602	Jackson County	1,321	59.05%	11,096	49.36%	96.37%	47.05%	14.45%	3.64%	15.84%
5	29189212200	St. Louis County	5,797	59.29%	6,498	62.69%	96.89%	38.00%	34.81%	11.04%	14.46%
6	29189213900	St. Louis County	1,389	61.70%	9,076	34.05%	96.90%	58.13%	46.02%	6.55%	10.30%
7	29189213800	St. Louis County	4,763	60.47%	9,840	58.56%	96.66%	33.78%	26.39%	11.36%	14.63%
8	29189212102	St. Louis County	2,286	65.27%	6,765	42.26%	96.59%	47.16%	15.91%	14.01%	13.99%
9	29510107500	St. Louis City	2,287	63.27%	8,634	38.22%	96.98%	45.90%	41.42%	11.37%	21.04%
10	29095006000	Jackson County	1,277	58.73%	12,811	36.65%	97.02%	44.61%	33.17%	10.24%	17.50%

**Note:** Data on vaccinated individuals are based on 1<sup>st</sup> round Moderna & Pfizer vaccinations and J&J vaccinations, based on the residence of the individual (18+) vaccinated, and as of 08/27/21. COVID-19 case rate provided by the State of Missouri as of 8/27/21. Methodology, data sources, and limitations are available in the Appendix.



*Content is meant to supplement knowledge and resources already available to you.*



*Content may be used to complement local efforts already taking place in your State and to assist with providing a level of granularity and frequency of updates that are not available in public datasets.*



*Information presented is illustrative of a sample of analyses and capabilities that may be available to you to support COVID-19 response and recovery efforts in Missouri.*



*Insight(s) represent content generated as of a specific date – content and insights are subject to change given updated data.*



*Content is populated by proprietary and publicly available sources, both of which are non-static and continuously updating.*



*For privacy purposes, Personally Identifiable Information (PII) such as names, addresses, precise location of households are not shared in this report.*